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Results of Surveys and Electrofishing in the Stewiacke River, 1984 to 1988 and St. Mary's River, 1985 and 1986

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RESULTS OF SURVEYS AND ELECTROFISHING IN THE STEWIACKE RIVER, 1984 TO 1988 AND ST. MARY'S RIVER, 1985 AND 1986

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ABSTRACT

Amiro, P.G., A.J. McNeill and D.A. Longard. 1989. Results of surveys and electrofishing in the Stewiacke River, 1984 to 1988 and St. Mary's River, 1985 and 1986. Can. Data Rep. Fish. Aquat. Sci. No. 764: ix + 55 p.

Data concerning the distribution, numbers captured, population densities, migration of marked fish, lengths-at-age of juvenile Atlantic salmon (*Salmo salar*) and co-existing species as determined by electrofishing in the Stewiacke River, 1984 to 1988 and St. Mary's River, 1985 and 1986, are presented.

RÉSUMÉ

Amiro, P.G., A.J. McNeill and D.A. Longard. 1989. Results of surveys and electrofishing in the Stewiacke River, 1984 to 1988 and St. Mary's River, 1985 and 1986. Can. Data Rep. Fish. Aquat. Sci. No. 764: ix + 55 p.

On présente des données (distribution, nombre de spécimens capturés, densités de population, migrations des spécimens marqués, longueur selon l'âge) sure le saumon de l'Atlantique (*Salmo salar*) juvénile et sur les espèces qui coexistent avec lui. Ces données proviennent de la pêche électronique dans la rivière Stewiacke, de 1984 à 1988, et dans la rivière Saint Mary, en 1985 et 1986.

INTRODUCTION

Research directed towards improved approaches to assessments of Atlantic salmon (*Salmo salar*) stocks using juvenile densities has resulted in proposals to change the manner data are collected and analyzed. These proposals arise from the possibility that habitat may affect the distribution of juvenile salmon. If so, habitat could have a major impact in the assessment process, for example in the estimation of egg deposition requirements (Amiro and McNeill, 1986). Research and development of techniques which objectively quantify and classify habitat are therefore desirable for progressive management of the salmon resource.

Building on the techniques developed by Amiro (1983 and 1984) habitat and juvenile population data have been collected for some five years. These data may be used to assess the validity of models integrating habitat surveys with juvenile salmon population density and distribution as well as provide alternative assessment methodology for the Stewiacke and St. Mary's rivers.

STUDY AREAS

The Stewiacke River (Fig. 1), a tributary of the Shubenacadie River, Nova Scotia, drains an area of 619 km^2 into the Bay of Fundy via Minas Basin. The lower 60 km drains mainly sedimentary rock overlain with deep soils rich in calcium carbonate. The head of tide is located some 26 km from the confluence with the Shubenacadie River which experiences a 9 m tidal effect.

The St. Mary's River (Fig. 2) drains an area of 1,359 km^2 into the Atlantic Ocean on the eastern shore of Nova Scotia. The West Branch of the river flows along a geological fault separating two distinctive geological formations and consequently soil and water quality varies within the system.

MATERIALS AND METHODS

REMOTE SURVEYS

Numerical longitudinal profile descriptions of the river systems were derived from digital measurement of stream lengths between 5 meter contour intervals on 1:10,000 orthophotographic maps (L.R.I.S., 1978, from 1973 photography).[1] Water surface area for stream lengths between contour lines crossing the streams (remote reaches) calculated as the product of the stream length and mean width as measured from 1:10,000 color aerial photographs.

Sampling intervals for width measurements were generated on data forms according to an algorithm which required a minimum of two widths between contour intervals less than 50m (using the first measurement of the next reach for calculating an average), or width measurements approximately every 50

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[1] Land Registration and Information Systems, Surveys and Mapping Division, Summerside P.E.I.

meters for reaches up to 1.6km (maximum of 32 measurements). The width sampling interval for reaches longer than 1.6 km was increased by 10m until 32 or fewer samples were required. Exact distance between sampling intervals was rounded according to the integer value of the reach length divided by the estimated number of intervals. Widths were measured using a 6x monocular comparator equipped with a 10^{-1} mm divisional line reticle.

Locations of remote reaches were transferred to air photos by comparing attributes on the ortho-photo-map using stereo scopes when necessary. Remote reaches were sampled continuously upstream until the ortho-grade exceeded 15% unless bridged by a fishway. Where aerial viewing of a stream was obstructed by overhanging cover or shadow, width measurements were attempted for the next four reaches; and if no further measurements were possible the survey was terminated for that stream. Average widths were interpolated where widths could not be measured for three or less reaches.

When the first four remote reaches of a stream were not viewable on the photos and the stream consisted of many reaches and confluences, a search for a width window was made upstream on the photo set. If a window was observed and the stream width was resolvable, then the survey was continued and widths for the non-viewable portion of the stream were extrapolated to downstream reaches.

Width measurements taken from photographs were converted to meters using the exact scale factor calculated for each photo according to the flying height, focal length and ground elevation (value of the initial contour).

Mean widths for reaches were adjusted to a standard summer low discharge. Daily water gauging data over as many years as available were used to calculate the average daily flow (ADF, cubic meters*second^{-1}) and the mean summer low (MSL) for the months July, August and September. A discharge correction factor was calculated from a regression between log percent ADF on log percent change in mean top width (based on 100% ADF). The relationship was calculated from data given by Wesche (1973) for change in mean transect top width for two tributaries of the North Platte River, Wy. Minimum values, 12.5% of ADF were eliminated from the regression because these values are below most MSL flows found on unregulated streams. The resulting equation ($\log Y = 8.6897 * \log X - 15.4158$, $r2=.9035$; $p = 0.001$) allowed the calculation of the percent change in top width for the estimated MSL as well as the percentage change in top width for the date of the photo. The ratio between the percent of ADF top width for MSL and percent of MSL top width for the photo day was the correction factor.

PROXIMATE SURVEYS

Proximate stream surveys for electrofishing sites and for comparison to areas derived by remote survey, were conducted between contour (remote reaches) limits located in the field using orthophotographic maps and color aerial photographs. Surveying generally proceeded upstream and with regard to ecological unit types, termed proximate reaches. Proximate reaches had similar surface, bottom and width characteristics, and were width sampled at

the beginning, end and every 30 m or midpoint of the reach length. Widths and lengths were measured (to 10^{-2} m) with a fibre measuring tape. Depths (to 10^{-3} m) were measured with a survey rod at one quarter intervals across width transects. The centre-depth location was sighted using an engineering auto-level and standard levelling techniques for determining the water surface grade of the proximate reach. Total area for contour to contour sites was calculated as the product of the average width for the beginning, every 30 meters and ending point of the reach and the reach length. Percent surface-grade was derived by adding the centre depth measurements to the elevations at the top and bottom limits of the site. Area-weighted-percent-grade of each electrofishing site (a combination of consecutive proximate reaches) was calculated using each contributing proximate reach area as the weighting factor. Areas and area-weighted percent grades for use in population estimates were calculated by omitting proximate reaches with grades greater than 5%, i.e. white water chutes and falls.

Surveys were conducted once at each site in either 1984, 1985 or 1986. New sites were added and others dropped in an attempt to better distribute the sampling with respect to the area by distance-gradient matrix for the river system.

ELECTROFISHING

Locations (remote reaches) for electrofishing sites were randomly selected from 0.25% gradient and 10.0 km cells proportionate to the percent contribution to the total stream area each cell contributed to the distance-gradient matrix. Locations were not always accessible, and therefore more than the workable number for a four-person crew working eight weeks was initially selected.

Electrofishing sites (consecutive proximate reaches) consisted of approximately 100m of stream, the exact limits of which were suggested by the ecological unit types. The cumulative length of consecutive sites equalled the remote reach length (a location). Larger remote reaches were subdivided into sections and subsampled to make smaller areas, allowing one day for marking and one day for capture at a location.

Electrofishing was conducted using a shore-mounted, generator-driven transformer, single anode, dip nets (2 max) and lipsein (Elson 1962) operated in a streambank to streambank pattern from bottom to top markers of the section. Locations in the main river where wading was not possible were conducted using a generator driven double boom electrofishing boat.[2]

Fish captured in a site were removed and held in an instream flow-through holding box until the site was fished over once. Anaesthetized (MS222) fish larger than 6.0 cm were marked by clipping a portion of either the upper or lower caudle, or right or left ventral, or anal fin. Function of the fin was ensured by removing only a small portion, ie. squaring the tip.

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[2] Smith-Root GPP 3.5, Smith-Root Inc. Vancouver Washington.

Fish were allowed to recover from the effects of the anaesthetic in a separate compartment of the holding box and dispersed throughout the site. Population estimates for specific sections were made possible by differential fin-clipping. One to three days generally passed between marking and sampling runs.

All fish larger than 5.0 cm were measured and recorded to a 0.5 cm fork length interval. Scale sampling proportionate to length frequency classes enabled ageing by scale reading and therefore population estimates by age-classes. Average length-at-age for ages-1+ and-2+ was calculated by using the number of fish in a 0.5 cm length interval and the midpoint value of that interval.

Species other than salmon were considered present only if a mark or capture occurred allowing the entry of 0's for subsequent or previous fishing where no fish were captured. Sites with no captures of salmon age-1+ or older were assigned 0's in the data tables.

Adjusted Peterson population estimates (Ricker, 1975) for each site were calculated from mark-recapture data collected by electrofishing with the addition of mortalities recovered from the site. Minimum population estimates for sites with zero re-capture of marked fish were conservatively derived from the total catch.

Schnable multiple-mark-recapture estimation technique (Ricker, 1975) was used for one electro-boat site located in the main Stewiacke River where two separate days of recapture effort were deployed.

Age-0+ parr and trout (<5.0cm) are too small to mark and recapture without significant mortality. Therefore estimates for age-0+ parr were made by counting the number captured during the marking run and applying the probability of capture, ie. the efficiency coefficient for age-1+ parr. Populations of age-0+ could not be estimated by this technique where data were insufficient for the derivation of age-1+ parr probability of capture coefficients.

RESULTS

STEWIACKE RIVER

Water surface area of the Stewiacke River available for juvenile production of Atlantic salmon was estimated to be $26,600*10^2$ m^2 (Table 1). Areas adjusted to summer low discharge are reported by 10 km distance intervals (above tide head) and by 0.12 and 0.25% stream gradient intervals.

Over the course of five years, 1984 to 1988, a total of 34 locations (Fig. 1 and Table 2) distributed throughout the system were surveyed and electrofished in the Stewiacke River and tributaries. Proximate surveys were conducted at these 34 locations defining physical characteristics for 85 unique electrofishing sites (Table 3).

Location, date of marking run, area (<5.0% grade) and densities (number of fish $*m^{-2}*10^{2}$) of juvenile Atlantic salmon estimated for age-0+, age-1+, and age-2+ and for age-1+ and -2+ combined are reported for 46 sites electrofished in 1984 (Table 4), 30 sites in 1985 (Table 5), 39 sites in 1986 (Table 6) 36 sites in 1987 (Table 7) and 29 sites in 1988 (Table 8). Coefficient of variation of the estimate is reported as an indicator of the precision of the mark and recapture estimates.

Distribution of age-3+ parr was limited to six locations in the Stewiacke River (Table 9).

Migration of marked juvenile salmon to sites outside the marking site was tabulated by direction of movement, age of fish and year of fishing (Table 10).

Frequency weighted average lengths of age-1+ and age-2+ parr were tabulated by site and year of fishing (Tables 11 to 15).

Densities ($*m^{-2}*10^{2}$) of brook trout (*Salvelinus fontinalis*) less than 6.0 cm, 6.0 to 11.9 cm and greater than 11.9 cm, were estimated where numbers were sufficient (Tables 16-20).

Migration of marked brook trout to sites outside the marking site was tabulated by direction of movement, age of fish and year of fishing (Table 21).

Densities ($*m^{-2}*10^{2)}$ of brown trout (*Salmo trutta*) less than 6.0 cm, 6.0 to 11.9 cm and greater than 11.9 cm, were estimated where numbers were sufficient (Tables 22-26).

Observed migration of marked brown trout between sites was infrequent enough to preclude tabulation.

The presence and relative population size, as indicated by the number counted during the capture run, of 10 other species of fish were tabulated annually by site (Tables 27-31). Species encountered were: American eel (*Anguilla rostrata*), common sucker (*Catostomus commersoni*), brown bullhead (*Ictalurus nebulosus*), lake chub (*Couesius plumbeus*), common shiner (*Notropis cornutus*), blacknose shiner (*Notropis heterolepis*) (unconfirmed), yellow perch (*Perca flavescens*), fourspine stickelback (*Apeltes quadracus*), threespine stickelback (*Gasterosteus aculeatus*), lamprey (*Peteromyzon marinus*), gaspereau (*Alosa pseudoharengus* or *aestivalis*), shad (*Alosa sapidissima*), striped bass (*Morone saxatilis*).

ST. MARY'S RIVER

Total water surface area on the St. Mary's River available for juvenile production of Atlantic salmon was estimated to be $58,700*10^2$ m^2 and reported by 0.25% gradient and 10.0 km distance intervals (Table 32).

Surveys were conducted at 24 locations in the St. Mary's River and tributaries during June to August of 1985 and 1986 (Fig. 2 and Table 33). Proximate surveys were conducted at these 24 locations defining physical characteristics for 42 unique electrofishing sites (Table 34).

Location, date of marking run, area (<5.0% gradient) and densities ($*m^{-2}*10^2$) of juvenile Atlantic salmon estimated for age-0+, age-1+, and age-2+ and for age-1+ and-2+ combined are reported for 28 sites electrofished in 1985 (Table 35) and 37 sites in 1986 (Table 36). Coefficient of variation of the estimate is reported as an indicator of the precision of the mark and recapture estimates.

Age-3+ and older parr were observed at four locations in the St. Mary's River (Table 37).

Frequency weighted average fork lengths of age-1+ and age-2+ parr were tabulated by site and year (Tables 38 and 39).

Densities ($*m^{-2}*10^2$) of brook trout less than 6.0 cm, 6.0 to 11.9 cm and greater than 11.9 cm, were estimated where numbers were sufficient (Tables 40 and 41).

The presence and relative population size, as indicated by the number counted during the capture run, of other species of fish were tabulated annually by site (Tables 42 and 43). Species encountered were; American eel (*Anguilla rostrata*), common sucker (*Catostomus commersoni*), lake chub (*Couesius plumbeus*), common shiner (*Notropis cornutus*), blacknose shiner (*Notropis heterolepis*) (unconfirmed), fourspine stickleback (*Apeltes quadracus*), threespine stickleback (*Gasterosteus aculeatus*), lamprey (*Peteromyzon marinus*), gaspereau (*Alosa pseudoharengus* or *aestivalis*).

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Table 1. Area (m^2*100) by percent orthogradient and distance above the 10-m contour for the Stewiacke River.

Dist. interval (km)	Area (m^2*100) by percent orthogradient interval and distance											Row totals	Percent total area
	0-0.12	0.121-0.249	0.25-0.49	0.5-.99	1-1.49	1.5-1.99	2-2.49	2.5-2.9	3-3.49	3.5-5.0	>5.0		
00-09.999	3,000	116	142	0	0	0	0	0	0	0	0	3,258	12.2
10-19.999	3,238	668	63	29	6	0	0	1	0	0	0	4,007	15.0
20-29.999	2,824	86	244	419	21	16	2	3	0	0	0	3,616	13.5
30-39.999	2,865	0	264	732	157	29	0	0	0	0	0	4,047	15.1
40-49.999	1,972	1,557	411	175	33	8	6	0	5	2	0	4,170	15.6
50-59.999	28	1,480	1,390	702	288	55	33	7	4	6	0	3,994	14.9
60-69.999	0	0	1,046	1,092	523	166	88	21	20	7	5	2,968	11.1
70-79.999	0	0	80	267	265	91	0	0	0	0	0	703	2.6
Column totals	13,928	3,907	3,640	3,416	1,293	366	130	32	29	16	5	26,762	100.0
Percent total area	52.0	14.6	13.6	12.8	4.8	1.4	0.5	0.1	0.1	0.1	<0.1		

Table 2. Locations, names and contour intervals on orthophotographic maps, where physical and electrofishing surveys were conducted in the Stewiacke River, 1984 to 1988.

Location number	River name	Contour interval (m)
1	Upper Stewiacke River Shepherds Junction	120-125
2	Upper Stewiacke River Roadside	70-75
3	Upper Cox Brook	150-165
4	Lower Cox Brook	50-55
5	Pembroke River at Burnside (above Falls)	95-110
6	Pembroke River at Glenbervie (below Falls)	45-50
7	Upper Pembroke River	175-185
8	Newton Brook above Bridge	90-100
9	Little Branch Cox Brook	145-160
10	Mahailas Brook	55-95
11	South Branch Stewiacke River	75-90
12	Little River (upper site)	95-105
13	Little Branch Stewiacke	145-160
14	Newton Brook above bridge	35-40
15	Newton Brook above Dean	120-125
16	Goshen Brook	40-45
17	Fulton Brook	75-90
18	Little River at bridge (lower site)	80-85
19	Chapman Brook	105-115
20	Rutherford Brook Kennedys' Farm	20-25
21	Fall Brook	130-140
22	Scrubgrass Brook	60-65
23	Stewiacke River Landsdowne Road	100-105
24	Stewiacke at De Grootes	10-15
25	Stewiacke at Corbetts Bridge	10-15
26	Sucker Brook	65-75
27	Little River at Boys Camp	10-15
28	East Brook	15-20
29	Putnam Brook	20-25
30	Rutherford Brook Steep Hill	40-45
31	South Branch Stewiacke	20-25
32	Blackie Brook	25-30
33	Big Branch Stewiacke	95-100
34	Sutherland Brook	110-115

Table 3. Description of sites within the 34 locations surveyed in the Stewiacke River, 1984-1988, by proximate-measured and orthophotographic map-measured attributes.

Location .site	Total area (m^2)	Area < 5.0% grade (m^2)	Surface grade (%)	Area wt'd surf.grad (%)	Ortho grade (%)	Distance at start (km)	Site length (m)	Ortho area (m^2)
1.1	320	304	1.02	0.94	-	71.258	107	c.
1.2	234	234	1.10	1.43	-	71.365	104	c.
1.1+2	554	538	1.06	1.15	0.62 b.		211	c.
2.1	2,404	2,404	0.86	0.88	-	62.238	103	c.
2.2	2,833	2,833	0.33	0.34	-	62.341	97	c.
2.1+2	5,237	5,237	0.61	0.59	0.41 b.		200	c.
3.1	1,181	1,181	1.46	1.35	4.07	67.153	120	d.
3.2	1,320	1,320	2.66	2.58	3.73	67.276	151	d.
3.3	1,206	1,206	3.35	3.18	6.67	67.410	100	d.
4.5	633	633	1.08	1.03	-	58.410	107	c.
4.6	878	878	0.26	0.28	-	58.517	111	c.
4.7	878	878	0.63	0.62	-	58.628	105	c.
4.5+6+7	2,389	2,389	0.65	0.60	0.52 b.		323	c.
4.1-9	6,703	6,703	0.85	0.86	0.52	57.989	954	5,330
5.2 (above	1,263	1,263	1.60	1.61	3.18	60.325	144	1,575
5.3 falls)	2,674	2,365	1.74	1.46	1.82	60.482	284	2,551
6.2	1,027	1,027	0.60	0.59	-	53.526	95 f.	c.
6.4	1,130	1,130	0.41	0.50	-	53.351	102	c.
6.8	1,260	1,260	0.30	0.32	-	52.932	98	c.
6.2+4+8	3,417	3,417	0.19	0.46	0.41 b.		295	c.
6.1-12	12,651	12,651	0.42	0.45	0.41 b.	52.390	1,196	10,664
7.1	1,432	1,432	1.33	1.39	1.66	68.022	309	d.
7.2	1,692	1,692	1.69	1.71	1.67	68.331	301	d.
8.1	1,042	984	2.10	1.74	3.27	55.200	186	398 a.
8.2	963	761	3.31	1.57	2.90	55.353	170	450 a.
9.1	592	485	3.31	2.39	4.04	65.266	121	344 a.
9.2	528	452	3.17	2.56	4.86	65.390	100	286 a.
9.3	395	395	2.50	2.52	5.05	65.493	100	275 a.
10.1	959	959	1.97	2.00	1.96	58.606	202	250
10.2	703	703	2.45	2.65	2.85	58.781	170	d.
10.3	393	393	2.59	2.66	3.00	58.948	123	d.
10.4	357	357	2.85	2.82	4.21	59.067	112	d.
10.5	348	348	2.53	2.72	4.53	59.177	103	d.
10.6	329	329	3.33	3.25	5.30	59.272	96	d.
10.7	648	648	3.43	3.28	5.34	59.365	152	d.
11.1	764	764	1.91	1.98	3.40	61.403	151	d.
11.2	1,013	1,013	1.97	1.98	2.20	61.550	219	d.
11.3	594	522	3.76	2.18	3.23	61.777	147	d.
12.1	336	336	1.47	1.47	5.26	30.130	93	d.
12.2	407	407	1.13	1.14	-	30.225	103	c.
12.3	327	327	1.64	1.60	-	30.312	89	c.
12.2+3	734	734	1.36	1.34	2.76		192	d.
13.1	286	286	1.53	1.70	7.75	71.077	63 f.	d.
13.2	871	871	1.75	1.75	2.37	70.943	210	d.
13.3	749	745	1.69	1.46	2.67	70.732	182	d.
14.1	981	981	0.81	0.80	-	50.591	141	c.
14.2	918	918	0.71	0.72	-	50.732	138	c.
14.3	965	965	0.90	1.03	-	50.871	160	c.
14.1+2+3	2,864	2,864	0.81	0.85	1.15		439	
15.1	570	567	2.23	2.08	-	56.603	123	c.
15.2	493	388	2.79	0.85	-	56.726	122	c.
15.3	414	379	1.48	1.01	-	56.848	119	c.
15.1+2+3	1,477	1,334	2.17	1.42	1.38		364	842 a.
16	553	505	1.53	0.57	3.16	46.048	160	d.
17.1	283	283	1.51	1.53	7.85	56.178	61 f.	e.
17.2	192	192	0.94	0.81	14.40	56.115	33	e.
17.3	457	457	1.29	1.28	7.17	56.080	71	e.
18.1	380	380	0.62	0.70	-	28.635	97	c.
18.2	368	368	0.98	1.08	-	28.732	90	c.
18.1+2	748	748	0.79	0.89	2.67		187	333

Table 3. Cont,d

Location .site	Total area (m^2)	Area < 5.0% grade (m^2)	Surface grade (%)	Area wt'd surf.grad (%)	Ortho grade (%)	Distance at start (km)	Site length (m)	Ortho area (m^2)
19.1	327	273	3.85	1.25	5.51	37.436	89	d.
19.2	210	210	2.71	2.59	-	37.527	58	c,e.
19.1+2	537	483	3.40	1.83	-		147	c,e.
20.2	1,583	1,583	0.15	0.21	-	27.925	115	c.
20.6	1,167	1,167	0.00	0.16	-	28.400	105	c.
20.9	1,160	1,160	0.61	0.63	-	28.751	109	c.
20.10	2,142	2,142	0.84	0.85	-	28.860	148	c.
20.2+6+9	3,910	3,910	0.20	0.32	0.42 b.		329	c.
20.1-10	11,152	11,152	0.33	0.40	0.42	27.808	1,200	11,056
21.1	401	398	1.46	1.31	-	71.925	128	c.
21.2	278	260	1.43	1.09	-	72.053	90	c.
21.3	214	209	1.56	1.42	-	72.143	91	c.
21.1+2+3	893	867	1.48	1.27	1.62		309	440
21.4	747	716	1.63	1.41	3.02	72.233	168	d.
22.1	455	439	1.07	0.84	-	59.624	120	c.
22.2	409	370	1.66	1.20	-	59.744	119	c.
22.1+2	865	809	1.36	1.01	2.16		239	667
23.0	1,799	1,799	0.30	0.26	0.82 b.	69.306	128	c.
24.0	6,874	6,874	0.00	0.00	0.02 b.	17.299	250	c.
25.0	19,900	19,900	0.00	0.00	0.02 b.	14.387	750	c.
26.1	282	181	3.08	1.65	6.19	60.982	81	d.
26.2	429	334	3.09	2.05	3.90	61.063	127	d.
27.1	1,531	1,531	0.21	0.22	-	7.934	113	c.
27.4	1,251	1,251	0.32	0.43	-	8.312	97	c.
27.1-9	13,406	13,406	0.29	0.33	0.49		1,385	10,812
28.1	412	408	0.56	0.48	-	13.440	106	c.
28.3	423	418	0.73	0.63	-	13.656	106	c.
28.1+3	835	827	0.37	0.56	-		212	c.
28.1-7	2,986	2,962	0.63	0.64	0.76		656	1,279
29.1	450	450	1.17	1.25	-	23.414	114	d.
29.2	447	447	1.46	1.46	-	23.527	111	d.
29.3	398	398	1.99	1.99	-	23.639	97	d.
29.1+2+3	1,295	1,295	1.52	1.55	1.22		322	d.
30.1	904	904	0.71	0.72	-	31.317	105	c.
30.2	1,009	1,009	0.56	0.50	-	31.422	116	c.
30.1+2	1,913	1,913	0.63	0.61	-		221	c.
30.3	562	562	0.96	0.97	-	31.538	69	c.
30.1+2+3	2,475	2,475	0.71	0.69	1.52		290	2,949
31.1	985	985	0.00	0.05	-	51.242	100	c.
31.2	858	858	0.38	0.39	-	51.324	100	c.
31.1+2	1,843	1,842	0.13	0.21	0.12 b.		200	c.
32.0	415	415	1.04	0.98	4.29	47.615	131	229 a.
33.1	831	791	0.96	0.68	-	67.245	121	c.
33.2	1,112	1,112	0.58	0.58	-	67.366	116	c.
33.1+2	1,902	1,902	0.42	0.62	0.74 b.		237	c.
34.1	690	690	1.16	1.08	-	69.987	139	c.
34.2	1,088	1,088	1.36	1.36	-	70.126	173	c.
34.3	680	680	1.09	0.98	-	70.299	139	c.
34.1+2+3	2,459	2,459	1.22	1.19	1.29		451	1,928 a.

a. Area derived using some interpolated widths.
b. Grade based on sub-sample of total area between contours.
c. Not a contour-to-contour reach.
d. Above remote-measurable widths.
e. Above remote survey limit.
f. Survey direction downstream.

Table 4. Location, date, area, capture data a., density estimates by age-class and coefficient of variation, of Atlantic salmon electrofished in the Stewiacke River in 1984.

Location .site	Date dd/mm	Area m^2	Capture data: Age-0+ marks count	Age-1+ M	Age-1+ C	Age-1+ R	Age-1+ Mort	Age-2+ M	Age-2+ C	Age-2+ R	Age-2+ Mort	Parr .m^-2.10^2: age-1+	age-2+	total	age-0+	Coefficient of variation: age-1+	age-2+
1.1	02/08	304	35	41	19	16	0	9	9	6	0	16.3	4.7	21.0	13.9	9.1	19.4
1.2	02/08	234	24	28	22	12	2	7	5	4	0	22.8	4.1	26.9	19.5	17.0	16.7
1.1+2	02/08	538	59	69	41	28	2	16	14	10	0	19.2	4.3	23.5	16.4	10.0	14.9
2.1	20/08	2,404	185	166	55	29	0	20	10	6	0	13.0	1.4	14.3	14.5	12.2	21.3
2.2	21/08	2,833	312	169	172	51	0	18	35	13	0	20.0	1.7	21.7	36.9	11.5	20.2
2.1+2	20/08	5,236	497	449	290	114	0	58	52	25	0	21.7	2.3	24.0	24.1	7.2	13.7
3.n	above barrier																
4.5	04/07	633	206	40	28	12	0	10	4	4	0	14.4	1.7	16.2	74.4	19.9	0.0
4.6	03/07	878	86	20	26	9	2	0	1	0	0	6.7	0.2	6.9	28.7	23.1	50.0
4.7	03/07	878	151	27	33	8	0	1	2	0	0	12.0	0.7	12.7	67.4	27.1	57.7
4.5+6+7	03/07	2,389	443	87	87	29	2	11	7	4	0	10.9	0.8	11.7	55.4	14.5	25.0
5.n	above barrier																
6.2	16/07	1,027	83	37	56	10	0	4	16	2	0	19.2	2.8	21.9	43.0	25.9	45.4
6.4	16/07	1,130	93	67	64	22	0	4	7	2	0	17.0	1.2	18.2	23.6	16.4	39.5
6.8	16/07	1,260	115	61	66	15	0	11	23	5	0	20.6	3.8	24.4	38.8	21.2	32.7
6.2+4+8	16/07	3,417	291	165	186	47	0	19	46	9	0	18.9	2.8	21.7	33.4	12.3	26.8
7.n	above barrier																
8.1	05/07	984	91	40	36	20	3	45	41	22	3	7.6	8.8	16.5	17.4	13.5	13.3
8.2	04/07	761	128	48	27	11	0	49	41	20	0	15.0	13.1	28.2	40.1	21.0	15.1
8.1+2	05/07	1,745	219	88	63	31	3	94	82	42	3	10.4	10.7	21.1	25.8	12.1	10.3
9.1	07/08	485	14	2	1	0	0	4	6	2	0	1.2	2.4	3.6	8.7	50.0	37.8
9.2	07/08	452	5	1	2	1	0	5	2	1	0	0.7	2.0	2.7	3.3	33.3	33.3
9.3	07/08	395	6	4	3	3	0	3	1	0	0	1.3	2.0	3.3	1.9	0.0	50.0
10.n	dry																
11.n	no recruitment																
12.1	20/07	336	90	13	13	3	0	21	30	10	0	14.6	18.5	33.0	101.0	37.8	23.2
12.2	20/07	407	78	20	29	16	0	6	31	12	0	9.1	4.2	13.3	35.5	15.5	20.6
12.3	20/07	327	33	14	20	7	0	40	38	20	0	12.0	23.3	35.3	28.4	26.2	14.5
12.2+3 12.1+2	20/07	734	111	34	49	23	0	46	69	32	0	9.9	13.6	23.5	32.4	14.4	12.5
13.n	no recruitment																
14.1	10/07	981	459	64	63	27	0	5	11	3	0	15.1	1.8	17.0	108.6	13.9	36.5
14.2	11/07	918	559	106	49	18	0	21	16	5	0	30.7	6.8	37.5	161.8	17.6	30.4
14.3	11/07	965	391	64	39	14	0	19	17	5	0	18.0	6.2	24.2	109.7	19.8	30.9
14.1+2+3	11/07	2,864	1,409	234	151	59	0	45	44	13	0	20.8	5.2	25.9	125.2	10.0	21.4
15.1	12/07	567	51	18	19	10	0	10	6	4	0	6.1	2.7	8.8	17.3	19.4	21.8
15.2	12/07	388	55	24	22	10	0	9	15	4	2	13.5	8.8	22.2	30.9	20.9	31.9
15.3	16/07	379	63	17	17	11	0	8	8	4	1	7.1	4.5	11.7	26.4	16.0	25.6
15.1+2+3	12/07	1,334	169	59	58	31	0	27	29	12	3	8.3	5.1	13.4	23.8	11.8	19.2
16	01/08	505	107	70	67	31	0	24	18	10	0	29.9	8.6	38.4	45.7	12.7	18.7
17.1	25/07	263	19	14	13	5	0	0	0	0	0	12.4	0.0	12.4	16.8	28.6	0.0
17.2	25/07	192	11	10	12	7	0	0	0	0	0	9.3	0.0	9.3	10.2	20.7	0.0
17.3	25/07	457	29	39	36	23	0	0	0	0	0	13.5	0.0	13.5	10.0	11.9	0.0
18.1	24/07	380	193	89	86	39	2	54	54	22	2	52.0	35.1	87.2	112.8	11.4	15.3
18.2	24/07	368	265	90	68	25	0	48	51	24	0	65.6	27.7	93.3	193.2	15.2	14.1
18.1+2	24/07	748	458	179	154	64	2	102	105	46	2	57.7	31.3	89.0	147.5	9.3	10.7
19.1	30/07	273	77	13	8	2	0	13	8	5	0	15.4	7.7	23.1	91.1	40.8	21.8
19.2	30/07	210	50	28	18	6	0	13	12	9	0	37.5	8.7	46.1	66.9	28.1	14.5
19.1+2	30/07	483	127	41	26	8	0	26	20	14	0	26.1	7.8	33.9	80.8	25.8	13.4

Table 4. 1984 Cont'd

Location .site	Date dd/mm	Area m^2	Capture data: Age-0+ marks count	Age-1+ M	Age-1+ C	Age-1+ R	Age-1+ Mort	Age-2+ M	Age-2+ C	Age-2+ R	Age-2+ Mort	Parr .m^-2.10^2: age-1+	age-2+	total	age-0+	Coefficient of variation: age-1+	age-2+
20.2	14/08	1,583	91	46	46	12	0	0	0	0	0	10.7	0.0	10.7	21.2	22.7	0.0
20.6	15/08	1,167	134	94	90	32	0	0	0	0	0	22.4	0.0	22.4	32.0	13.7	0.0
20.9	14/08	1,160	125	83	104	45	0	1	5	3	0	16.5	0.3	16.8	24.9	10.9	25.8
20.2+6+9	14/08	3,910	350	223	240	89	0	1	5	3	0	15.3	0.1	15.4	24.1	6.3	25.8
21.1	08/08	398	19	10	12	3	0	20	16	12	0	9.0	6.9	15.9	17.1	37.2	13.0
21.2	08/08	260	12	6	9	2	0	12	12	6	0	9.0	9.3	18.3	17.9	41.8	24.0
21.3	08/08	209	10	7	6	3	0	18	19	10	0	6.7	16.5	23.2	9.6	29.3	19.4
21.1+2+3	08/08	867	41	23	27	8	0	50	47	28	0	8.6	9.7	18.3	15.4	26.0	11.5
21.4	08/08	716	31	5	14	6	0	28	39	23	0	1.8	8.8	8.5	11.1	25.8	12.6
22.1	16/08	439	232	50	38	11	0	23	23	7	1	37.8	16.6	54.4	175.2	23.1	26.8
22.2	16/08	370	117	49	36	16	0	22	20	7	0	29.4	16.3	45.7	70.2	17.3	26.2
22.1+2	16/08	809	359	99	74	27	0	43	44	14	1	33.1	16.4	49.5	120.1	14.7	20.3
23	28/08	1,799	71	32	34	10	0	2	5	1	0	5.8	0.5	6.3	12.9	23.8	47.1
24	29/08	6,874	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0
25	27/08	19,900	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0
26.1	28/08	181	9	18	16	4	0	6	3	1	0	35.7	7.7	43.4	17.8	34.3	48.8
26.2	30/08	334	13	20	18	7	0	7	9	5	0	14.9	4.0	18.9	9.7	25.4	23.9

a. Counts at the mark run (M)
Total count at the capture run (C)
Numbers of recaptures in the capture run (R)
Numbers of mortalities (Mort)

Table 5. Location, date, area, capture data a., density estimates by age-class and coefficient of variation, of Atlantic salmon electrofished in the Stewiacke River in 1985.

Location .site	Date dd/mm	Area m^2	Capture data: Age-0+ marks count	Age-1+ M	Age-1+ C	Age-1+ R	Age-1+ Mort	Age-2+ M	Age-2+ C	Age-2+ R	Age-2+ Mort	Parr .m^-2.10^2: age-1+	age-2+	total	age-0+	Coefficient of variation: age-1+	age-2+
1.1	12/08	304	61	36	29	16	0	5	5	4	0	21.5	2.4	23.8	36.4	15.5	16.7
1.2	12/08	234	52	25	23	17	0	8	8	6	0	14.8	4.9	19.8	30.8	11.5	16.7
1.1+2	12/08	538	113	61	52	33	0	13	13	10	0	18.0	3.3	21.3	33.3	10.1	13.4
8.1	29/07	984	9	178	182	101	0	14	10	8	0	32.6	1.9	34.5	1.7	6.6	13.5
8.2	29/07	761	3	133	112	67	4	9	12	6	1	29.8	2.6	32.4	0.7	7.5	22.8
8.1+2	29/07	1,744	12	311	294	168	4	23	22	14	1	31.5	2.2	33.6	1.2	5.0	14.4
9.1	02/08	484	0	46	30	16	0	1	2	1	0	17.7	0.6	18.3	0.0	15.8	33.3
9.2	02/08	452	0	21	16	8	0	2	3	2	0	9.2	0.9	10.1	0.0	21.7	25.0
9.3	02/08	396	0	14	12	6	0	6	1	0	0	7.0	1.8	8.8	0.0	24.0	****
15.1	28/08	567	0	65	47	28	1	2	1	1	0	19.4	0.5	20.0	0.0	11.4	0.0
15.2	28/08	388	0	90	78	49	1	7	1	0	0	37.3	2.1	39.4	0.0	8.4	****
15.3	28/08	379	0	79	59	40	0	4	1	0	0	30.9	1.3	32.2	0.0	8.7	****
15.1+2+3	28/08	1,334	0	234	184	117	2	13	2	1	0	27.8	1.6	29.3	0.0	5.5	33.3
18.1	11/07	380	0	132	137	44	0	57	57	24	0	107.3	35.4	142.7	0.0	12.1	14.8
18.2	11/07	368	0	205	214	114	0	49	54	34	0	104.7	21.4	126.0	0.0	6.3	10.1
18.1+2	11/07	748	0	337	351	158	0	106	111	58	0	100.0	27.2	127.2	0.0	5.9	8.9
23	24/07	1,799	111	51	42	13	0	11	4	2	0	8.9	1.1	10.0	19.3	21.2	31.6
25	28/08	19,900	0	10	10	1	0	7	20	1	0	0.3	0.4	0.7	0.0	52.2	54.9
27.4	15/07	1,251	74	93	87	32	3	6	9	5	0	20.3	0.9	21.2	16.1	13.4	23.9
28.1	18/07	408	62	45	39	24	1	10	16	7	0	18.3	5.7	24.0	25.2	11.8	24.3
28.3	18/07	418	0	16	15	5	1	18	15	7	0	11.1	9.1	20.2	0.0	29.2	23.6
28.1+3	18/07	827	62	61	54	29	2	28	31	14	0	14.0	7.5	21.5	14.2	11.9	18.2
29.1	10/07	450	24	111	115	48	1	35	37	21	1	59.1	14.0	73.2	12.8	10.7	13.3
29.2	10/07	447	7	134	113	56	1	43	37	21	0	60.6	17.0	77.6	3.2	9.3	13.5
29.3	10/07	398	19	82	69	27	0	40	36	17	0	52.1	21.2	73.3	12.1	14.4	16.4
29.1+2+3	10/07	1,295	50	227	297	131	2	118	110	59	1	39.9	17.1	57.0	8.8	6.4	8.6
30.1	08/08	904	74	78	70	40	0	28	20	12	0	15.1	5.2	20.3	14.4	10.0	16.5
30.2	08/08	1,009	82	74	62	35	1	29	18	9	0	13.1	5.6	18.8	14.5	10.7	20.8
30.1+2	08/08	1,913	156	152	132	75	1	57	38	21	0	14.0	5.4	19.4	14.4	7.4	13.8
32.0	06/08	415	57	34	17	9	3	3	1	1	0	15.9	1.0	16.9	26.7	19.2	0.0
33.1	15/08	791	218	81	83	40	0	43	45	24	0	21.2	10.2	31.5	57.2	11.0	13.3
34.1	14/08	690	71	42	50	19	1	25	21	14	0	16.0	5.5	21.6	27.1	16.9	14.1
34.2	14/08	1,089	106	85	82	38	0	30	32	21	0	16.8	4.3	21.1	21.0	11.5	12.0
34.3	14/08	680	26	59	57	27	1	35	29	18	0	18.4	8.4	26.8	8.1	13.2	13.5
34.1+2+3	14/08	2,459	203	186	189	74	2	94	82	53	0	19.3	5.9	25.3	21.1	8.9	8.0

a. Counts at the mark run (M)
Total count at the capture run (C)
Numbers of recaptures in the capture run (R)
Numbers of mortalities (Mort)

**** No estimate possible, density derived from total catch.

Table 6. Location, date, area, capture data a., density estimates by age-class and coefficient of variation, of Atlantic salmon electrofished in the Stewiacke River in 1986.

Location .site	Date dd/mm	Area m^2	Capture data: Age-0+ marks count	Age-1+ M	Age-1+ C	Age-1+ R	Age-1+ Mort	Age-2+ M	Age-2+ C	Age-2+ R	Age-2+ Mort	Parr .m^-2.10^2: age-1+	age-2+	total	age-0+	Coefficient of variation: age-1+	age-2+
1.1	04/07	304	78	38	23	12	1	3	3	0	0	24.0	2.0	26.0	49.3	17.8	****
1.2	04/07	234	16	22	17	8	0	7	4	2	0	19.7	5.7	25.4	14.3	22.4	31.6
1.1+2	04/07	538	94	60	40	20	1	10	7	2	0	22.3	5.5	27.8	35.0	14.8	39.5
4.5	01/08	633	181	46	32	17	0	3	2	1	0	13.6	0.9	14.6	53.6	15.5	33.3
4.6	01/08	878	217	41	29	14	0	3	6	3	0	9.6	0.8	10.4	50.6	17.7	29.3
4.7	01/08	878	221	55	39	19	0	11	11	4	0	12.8	3.3	16.0	51.3	15.4	31.2
4.5+6+7	01/08	2,389	619	142	100	50	0	17	19	8	0	11.9	1.7	13.5	51.7	9.8	23.5
8.1	15/08	984	424	21	15	4	0	48	36	16	0	7.2	10.8	18.0	144.5	33.9	17.3
8.2	15/08	761	268	10	5	2	0	36	16	6	0	2.9	11.8	14.7	77.5	35.4	27.1
8.1+2	15/08	1,745	692	31	20	6	0	84	52	22	0	5.5	11.2	16.7	122.8	28.9	15.4
9.1	16/07	484	3	2	3	0	0	13	6	3	0	2.5	5.1	7.5	3.7	61.2	29.3
9.2	16/07	452	0	0	0	0	0	8	4	3	0	0.2	2.5	2.7	0.0	0.0	20.0
9.3	16/07	395	0	0	0	0	0	7	6	4	0	0.3	2.8	3.1	0.0	0.0	21.8
9.1+2+3	16/07	1,331	3	2	3	0	0	28	16	10	0	0.9	3.4	4.3	1.4	61.2	17.1
15.1	03/07	567	203	14	14	6	0	14	6	5	0	5.7	3.1	8.8	82.2	25.8	14.3
15.2	03/07	388	137	27	23	13	0	18	13	9	0	12.4	6.9	19.2	62.8	16.7	16.1
15.3	03/07	379	148	24	16	10	0	14	8	5	0	10.2	5.9	16.1	62.9	17.1	21.8
15.1+2+3	03/07	1,334	488	65	53	29	0	46	27	19	0	8.9	4.9	13.8	66.9	12.0	11.7
16	15/07	505	44	40	33	10	0	43	42	14	0	25.1	25.0	50.1	27.6	23.7	20.2
18.1	24/06	380	1	32	14	5	4	30	14	7	2	22.8	15.8	38.6	0.7	27.9	22.0
18.2	24/06	368	2	59	30	13	0	38	22	8	0	36.1	27.1	63.2	1.2	19.1	24.7
18.1+2	24/06	748	3	91	44	18	4	68	36	15	2	29.7	21.6	51.3	1.0	16.7	18.0
19.1	26/06	273	0	18	7	2	0	18	13	2	0	18.6	32.5	51.0	0.0	39.5	44.3
19.2	26/06	210	0	6	1	1	0	18	16	4	0	3.3	30.8	34.1	0.0	0.0	34.3
19.1+2	26/06	483	0	24	8	3	0	36	29	6	0	11.6	32.8	44.5	0.0	33.3	31.0
20.2	06/08	1,583	114	44	32	9	0	1	2	0	0	9.4	0.2	9.6	24.3	25.2	****
20.6	06/08	1,167	102	52	54	12	0	1	2	1	0	19.2	0.3	19.5	37.7	23.4	33.3
20.10	06/08	1,957	134	99	119	34	5	4	8	4	0	17.8	0.5	18.2	24.1	13.8	27.2
20.2+6+10	06/08	4,707	350	195	205	55	5	6	12	5	0	15.4	0.3	15.7	27.7	11.2	27.7
23	10/08	1,799	128	51	39	14	0	17	11	8	0	7.7	1.3	9.0	19.3	19.8	15.8
25	04/08	6,874 c.												1.5 b.			
27.1	24/06	1,531	1	5	23	2	0	0	1	0	0	3.1	0.1	3.2	0.6	46.8	****
27.4	24/06	1,251	1	111	102	33	6	3	7	1	0	27.6	1.3	28.9	0.2	13.6	50.0
28.1	23/06	408	5	26	17	7	0	5	6	1	0	14.9	5.1	20.0	2.9	24.8	48.8
28.3	23/06	418	0	7	1	0	2	7	5	2	0	4.3	3.8	8.1	0.0	44.4	35.4
28.1+3	23/06	826	5	33	18	7	2	12	11	3	0	10.0	4.7	14.7	1.5	24.7	36.5
29.1	23/06	450	45	86	52	24	20	58	37	23	8	45.4	22.5	68.0	23.8	12.9	11.2
29.2	23/06	447	32	62	60	18	0	44	41	20	0	45.2	20.1	65.4	23.4	18.6	15.1
29.3	23/06	398	±	63	57	16	1	19	30	11	0	55.1	13.0	68.1	7.9	19.7	21.7
29.1+2+3	23/06	1,295	86	211	169	58	21	121	108	54	8	48.8	19.3	68.1	19.9	10.1	9.1
30.1	23/07	904	109	113	88	42	0	23	17	12	0	26.1	3.7	29.8	25.2	10.8	14.1
30.2	23/07	1,009	111	77	87	41	0	17	8	5	0	16.2	2.7	18.9	23.3	11.0	21.8
30.3	23/07	562	68	46	40	17	11	6	8	4	1	21.0	2.4	23.4	31.1	15.6	25.2
30.1+2+3	23/07	2,475	288	236	215	100	11	46	33	21	1	20.9	3.0	23.9	25.5	7.1	12.2
32.0	02/07	415	85				1					17.3	6.4	23.7 b.		0.0	0.0
33.1	10/07	791	68	52	59	16	0	28	21	10	0	23.6	7.3	31.0	30.9	20.0	20.4
33.2	10/07	1,112	47	40	49	18	0	25	12	6	0	9.7	4.3	14.0	11.4	17.6	24.0
34.1	09/07	690	9	20	15	4	1	18	20	9	0	9.9	5.8	15.7	4.4	33.4	21.8
34.2	09/07	1,089	34	11	17	5	0	30	44	22	0	3.3	5.6	8.9	10.2	30.9	14.3
34.3	09/07	680	18	9	22	6	0	29	28	11	0	4.8	10.7	15.5	9.7	29.5	21.2
34.1+2+3	09/07	2,459	61	40	54	15	1	77	92	42	0	5.8	6.9	12.6	8.8	20.3	11.1

a. Counts at the mark run (M)
Total count at the capture run (C)
Numbers of recaptures in the capture run (R)
Numbers of mortalities (Mort)

b. Schnable estimates

c. Partial site completed

**** No estimate possible, density derived from total catch.

Table 7. Location, date, area, capture data a., density estimates by age-class and coefficient of variation, of Atlantic salmon electrofished in the Stewiacke River in 1987.

Location .site	Date dd/mm	Area m^2	Capture data: Age-0+ marks count	Age-1+ M	Age-1+ C	Age-1+ R	Age-1+ Mort	Age-2+ M	Age-2+ C	Age-2+ R	Age-2+ Mort	Parr .m^-2.10^2: age-1+	age-2+	total	age-0+	Coefficient of variation: age-1+	age-2+
1.1	26/08	304	70	39	38	24	0	4	2	1	0	20.5	2.5	23.0	36.8	11.8	33.3
1.2	26/08	234	15	22	24	18	0	9	8	7	0	12.9	4.8	17.7	8.8	11.0	11.1
1.1+2	26/08	538	85	61	62	42	0	13	10	8	0	16.9	3.2	20.1	23.5	8.5	13.5
4.5	14/07	633	140	56	52	23	0	3	5	2	0	19.9	1.3	21.1	49.7	14.8	35.4
4.6	14/07	878	163	64	42	18	0	4	6	1	0	16.8	2.0	18.7	42.7	16.7	48.8
4.7	14/07	878	143	70	64	29	4	5	7	4	0	18.0	1.1	19.1	36.7	12.8	25.0
4.5+6+7	14/07	2,389	446	190	158	70	4	12	18	7	0	18.1	1.3	19.4	42.4	8.7	25.4
8.1	20/07	984	101	189	188	75	3	21	25	13	0	48.3	4.2	52.5	25.8	8.8	17.5
8.2	20/07	761	73	124	139	45	1	19	22	11	0	50.1	5.0	55.2	29.5	11.9	19.2
12.1	27/07	336	0	0	0	0	0	17	12	7	0	0.0	8.7	8.7	0.0	0.0	20.7
12.2	27/07	407	0	0	0	0	0	32	25	14	0	0.0	14.1	14.1	0.0	0.0	16.3
12.1+2	27/07	743	0	0	0	0	0	49	37	21	0	0.0	11.6	11.6	0.0	0.0	13.5
15.1	21/07	567	0	86	84	43	0	9	6	4	0	29.6	2.5	32.1	0.0	10.4	21.8
15.2	21/07	388	1	77	89	38	0	15	8	5	0	46.4	6.2	52.6	0.6	11.9	21.8
15.3	21/07	379	0	68	77	41	0	12	9	4	0	33.8	6.9	40.7	0.0	10.4	28.9
15.1+2+3	21/07	1,334	1	231	250	122	0	36	23	13	0	35.5	4.8	40.2	0.2	6.4	16.7
16	27/07	505	1	141	110	33	0	7	5	1	0	91.8	4.8	96.6	0.7	14.1	47.1
18.1	07/07	380	0	23	21	7	2	17	17	10	0	17.9	7.8	25.6	0.0	25.8	18.0
18.2	07/07	368	0	38	45	24	3	17	22	10	1	20.3	10.5	30.8	0.0	12.7	20.3
18.1+2	07/07	748	0	61	66	31	5	34	39	20	1	18.0	9.0	27.1	0.0	12.1	14.5
19.1	15/07	273	0	24	20	10	0	11	7	4	0	17.5	7.0	24.5	0.0	19.9	25.0
19.2	15/07	210	0	19	9	8	0	17	13	12	0	10.6	9.2	19.8	0.0	10.0	7.1
19.1+2	15/07	483	0	43	29	18	0	28	20	16	0	14.4	7.4	21.8	0.0	13.5	10.3
23	15/07	1,799	205	53	49	16	2	12	13	4	0	8.9	2.0	11.0	34.6	18.9	32.7
27.1	07/07	1,531	9	69	59	18	0	8	2	1	0	14.4	0.9	15.3	1.9	18.5	33.3
27.4	07/07	1,251	3	183	142	66	5	5	1	0	5	31.8	0.9	32.7	0.5	8.7	****
28.1	13/07	408	53	77	41	14	0	3	5	1	0	53.5	2.9	56.5	36.8	20.0	47.1
28.3	13/07	418	43	18	18	0	2	9	6	2	0	9.1	5.6	14.7	****	****	37.8
28.1+3	13/07	827	96	95	59	14	2	12	11	3	0	46.7	4.7	51.4	47.2	21.5	36.5
29.1	06/07	450	19	158	146	56	6	37	24	12	0	92.5	16.2	108.7	11.1	10.1	18.5
29.2	06/07	447	5	130	107	13	6	35	23	11	1	227.4	16.3	243.8	8.7	23.9	19.3
29.3	06/07	398	1	105	106	18	3	30	31	12	2	150.7	19.7	170.4	1.4	20.2	20.1
29.1+2+3	06/07	1,295	25	393	359	87	15	102	78	35	3	125.6	17.7	143.3	8.0	9.1	12.0
30.1	28/07	904	193	125	109	71	1	30	20	14	0	21.4	4.8	26.2	33.0	6.8	13.4
30.2	28/07	1,009	125	96	73	43	0	20	16	9	0	16.2	3.5	19.7	21.1	9.5	19.3
30.3	28/07	562	186	45	65	28	0	13	19	9	0	18.6	5.0	23.6	77.0	13.7	21.3
30.1+2+3	28/07	2,475	504	266	247	142	1	63	55	32	0	18.7	4.4	23.1	35.5	5.4	11.0
31.1	10/07	985	0	12	12	4	0	3	3	2	0	3.4	0.5	4.0	0.0	32.0	25.0
31.2	10/07	858	0	15	13	3	0	3	3	2	0	6.5	0.6	7.1	0.0	37.8	25.0
31.1+2	10/07	1,843	0	27	25	7	0	6	6	4	0	4.9	0.5	5.5	0.0	27.7	21.8
32.0	13/07	415	15	46	34	11	0	0	0	0	0	33.0	0.0	33.0	10.8	22.5	0.0
33.1	26/08	791	260	92	84	41	0	39	41	25	0	23.8	8.2	32.0	67.2	10.8	11.9
33.2	26/08	1,112	183	81	66	30	0	25	26	13	0	15.9	4.5	20.4	36.0	13.0	17.9
34.1	25/08	690	9	38	33	15	0	7	9	2	0	12.0	3.9	15.9	2.8	17.6	41.8
34.2	25/08	1,089	5	28	29	15	0	7	9	6	0	5.0	1.0	6.0	0.9	16.6	19.4
34.3	25/08	680	54	48	38	22	0	21	20	14	0	12.2	4.5	16.7	13.7	13.1	13.4
34.1+2+3	25/08	2,459	68	114	100	52	0	35	38	22	0	8.9	2.5	11.4	5.3	9.4	13.1

a. Counts at the mark run (M)
Total count at the capture run (C)
Numbers of recaptures in the capture run (R)
Numbers of mortalities (Mort)

**** No estimate possible, density derived from total catch.

Table 8. Location, date, area, capture data a., density estimates by age-class and coefficient of variation, of Atlantic salmon electrofished in the Stewiacke River in 1988.

Location .site	Date dd/mm	Area m^2	Capture data: Age-0+ marks count	Age-1+ M	Age-1+ C	Age-1+ R	Age-1+ Mort	Age-2+ M	Age-2+ C	Age-2+ R	Age-2+ Mort	Parr .m^-2.10^2: age-1+	age-2+	total	age-0+	Coefficient of variation: age-1+	age-2+
4.5	19/07	633	95	43	36	19	0	7	4	2	0	12.9	2.1	15.0	28.4	14.8	31.6
4.6	19/07	878	115	48	60	14	0	17	12	4	0	22.7	5.3	28.0	54.4	21.7	32.0
4.7	19/07	878	223	43	68	19	0	9	12	3	0	17.3	3.7	21.0	89.7	18.4	37.2
4.5+6+7	19/07	2,389	433	134	164	52	0	33	28	9	0	17.6	4.1	21.7	56.8	11.2	24.4
8.1	27/07	984	183	86	79	32	0	58	55	30	0	21.4	10.8	32.3	45.6	13.1	11.8
8.2	27/07	761	101	40	52	16	0	45	41	18	0	16.8	13.4	30.2	42.4	19.4	16.5
15.1	22/07	567	0	37	21	12	0	20	19	15	0	11.3	4.6	16.0	0.0	17.1	10.8
15.2	22/07	388	0	33	27	13	0	33	25	17	0	17.5	12.7	30.2	0.0	18.3	12.7
15.3	22/07	379	0	21	21	9	0	24	22	12	0	12.8	11.7	24.4	0.0	22.3	17.6
15.1+2+3	22/07	1,334	0	91	69	34	0	77	66	44	0	13.8	8.7	22.5	0.0	11.8	8.4
18.1	07/07	380	1	31	11	6	0	46	23	16	0	14.4	17.5	31.9	0.5	22.8	12.7
18.2	07/07	368	0	21	13	4	0	26	26	10	0	16.7	18.0	34.7	0.0	32.7	22.2
18.1+2	07/07	748	1	52	24	10	0	72	49	26	0	16.1	18.1	34.2	0.3	21.6	12.8
19.1	12/07	273	0	11	5	2	0	12	7	4	0	8.8	7.6	16.4	0.0	35.4	25.0
19.2	12/07	210	0	8	5	1	0	7	7	1	0	12.9	15.2	28.1	0.0	47.1	50.0
19.1+2	12/07	483	0	19	10	3	0	19	14	5	0	11.4	10.4	21.7	0.0	35.7	29.3
27.1	07/07	1,531	3	43	28	10	1	8	7	1	0	7.6	2.4	10.0	0.5	22.5	50.0
27.4	07/07	1,251	1	114	141	33	1	9	19	0	0	38.5	2.2	40.7	0.3	14.7	****
28.1	12/07	408	0	52	39	16	0	9	7	4	0	30.6	3.9	34.5	0.0	17.9	25.0
28.3	12/07	418	0	18	30	4	0	5	9	3	0	28.2	3.6	31.8	0.0	37.4	34.6
28.1+3	12/07	826	0	70	69	20	0	14	16	7	0	28.7	3.9	32.5	0.0	17.8	24.2
29.1	06/07	450	31	58	54	23	0	25	29	15	0	30.0	10.8	40.9	16.1	15.0	16.6
29.2	06/07	447	41	73	50	29	0	31	27	16	0	28.1	11.8	39.9	15.8	11.5	14.8
29.3	06/07	398	27	54	27	11	0	17	16	6	0	32.2	11.0	43.2	16.1	21.0	27.1
29.1+2+3	06/07	1,295	99	185	131	63	0	73	72	37	0	29.6	11.0	40.6	15.9	8.9	11.1
30.1	03/08	904	56	81	97	38	0	21	20	15	0	22.8	3.2	26.0	15.8	12.3	11.8
30.2	03/08	1,009	48	82	74	36	0	19	24	7	0	16.7	6.2	22.9	9.8	11.5	27.5
30.3	03/08	562	48	47	48	14	0	18	13	6	0	27.9	6.8	34.7	28.5	20.8	25.0
30.1+2+3	03/08	2,475	152	210	219	88	0	58	57	28	0	21.1	4.8	25.8	15.3	8.1	12.9
31.1	13/07	985	0	34	17	8	0	1	2	1	0	7.1	0.3	7.4	0.0	22.4	33.3
31.2	13/07	858	0	37	29	7	1	3	1	1	0	16.7	0.5	17.2	0.0	28.3	0.0
33.1	13/07	791	137	60	61	21	0	25	22	12	0	21.7	5.8	27.5	49.6	16.7	17.6
33.2	13/07	1,112	144	70	70	16	0	20	17	10	0	26.7	3.1	29.8	54.9	20.6	18.0
34.1	18/07	690	43	31	28	18	0	11	8	7	0	7.1	2.0	9.0	9.8	13.1	11.1
34.2	18/07	1,089	31	26	38	23	0	11	10	4	0	4.0	2.4	6.5	4.8	12.4	30.2
34.3	18/07	680	17	19	19	8	0	13	13	7	0	6.5	3.6	10.1	5.8	23.5	21.8
34.1+2+3	18/07	2,459	91	76	85	49	0	35	31	18	0	5.4	2.5	7.9	6.4	9.1	14.3

a. Counts at the mark run (M)
Total count at the capture run (C)
Numbers of recaptures in the capture run (R)
Numbers of mortalities (Mort)

**** No estimate possible, density derived from total catch.

Table 9. Year, location and site, area, numbers of M (marked), C (captures) and R (recaptures), densities and coefficient of variation of age 3+ Atlantic salmon electrofished in the Stewiacke River.

Year	Location .site	Area m^2	M	C	R	Parr .m^-2.10^2	Coefficient of variation
1984	15.2	388	0	1	0	0.3	****
	15.3	379	1	2	1	0.8	66.7
1985	8.1	984	2	1	1	0.3	0.0
	8.2	761	1	0	0	0.1	****
1985	9.1	484	1	1	1	0.4	0.0
	9.2	452	0	1	0	0.2	****
1985	15.3	379	2	1	1	0.8	0.0
1985	34.2	1089	4	3	1	0.9	204.1
1985	29.1	450	1	1	0	0.4	****
	29.2	447	1	1	1	0.4	0.0
1985	30.1	904	2	1	1	0.3	0.0
	30.2	1009	2	1	1	0.3	0.0
1986	4.6	878	2	1	1	0.3	0.0
	4.7	878	1	0	0	0.1	****
1986	9.1	484	0	1	0	0.2	****
	9.3	395	1	1	1	0.5	0.3
1986	20.2	1583	1	1	1	0.1	0.0
1986	29.1	450	1	2	1	0.7	66.7
1986	34.2	1089	2	1	1	0.3	0.0
1987	12.2	407	1	2	1	0.7	66.7
1987	19.1	273	2	0	0	0.7	****
1987	29.2	447	1	1	1	0.4	0.0
1987	30.2	1009	0	2	0	0.2	****
	30.3	562	0	1	0	0.2	****
1987	34.3	680	1	1	0	0.3	****
1988	8.1	984	1	0	0	0.1	****
	8.2	761	0	1	0	0.1	****
1988	18.1	380	2	0	0	0.5	****
	18.2	368	1	1	1	0.5	0.0
1988	29.3	398	0	1	0	0.5	****
1988	34.2	1089	1	1	1	0.2	0.0
	34.3	680	0	1	0	0.3	****

**** No estimate possible, density derived from total catch.

Table 10. Number and relative location of marked juvenile Atlantic salmon recovered outside a marking site while conducting mark-and-recapture population estimates by electrofishing in the Stewiacke River during July to September of 1984 to 1988.

Location .site	Recaptured at capture run: Upstream Age-1+	Upstream Age-2+	Downstream Age-1+	Downstream Age-2+	Recaptured at marking run
1984					
2.1			1		
2.2	3				2 @ 1+ up
12.2				1	
14.1				1	
14.2					4 @ 1+ up
15.2					1 @ 1+ down
17.2	1				
17.3	1				
20.6	1				
21.2	2	2			
21.3				1	
21.4	2				
22.1			1		
22.2	2				
26.2		1			2 @ 2+ up
1985					
1.2	1				
8.1			3		
15.1			1		
15.2	7	1		2	
15.3	4				
27.4	1				
28.1			1		
30.1			1	1	
30.2			1		
34.1			1		
34.2	2				
34.3	2	1			
1986					
1.2	2	1			
4.6	2		1		
4.7	1				
15.2	1				
18.2					1 @ 1+ up
20.6	1				
29.1			1		
29.2	1		2	1	
30.1			1		
30.2	6			1	
30.3		1			
1987					
4.7	7				
8.1			4		
8.2	12	2			
15.2	1		1		
15.3	1				
18.1			1	1	
18.2	1	1			
27.1			1		
27.4	4				
29.1			6		
29.2	1		1		
29.3	3	5			
30.1			2		
30.2	6	1			
30.3	5				
33.1			1		
33.2	1				

Table 10. Cont'd

Location .site	Recaptured at capture run				Recaptured at marking run
	Upstream		Downstream		
	Age-1+	Age-2+	Age-1+	Age-2+	
1988					
4.5			1		
4.6	3				
4.7	2	3			
15.2	1		1		
15.3	1				
18.2		1			
19.1			1		
19.2	1				
28.1			1		
29.1			1	2	
29.2	2		1		
29.3	2				
30.1			1		
30.2		1			
30.3	2				
31.2	3				
34.2	1	1			
34.3	1				

Table 11. Location, date, frequency-weighted mean length (cm) and standard deviation of the mean of two age-classes of Atlantic salmon electrofished in the Stewiacke River, 1984.

		Age-1+		Age-2+	
Location .site	Date dd/mm	Wt'd. mean length	Std. dev.	Wt'd. mean length	Std. dev.
1.1	02/08	9.8	0.83	12.7	0.66
1.2	02/08	9.9	0.91	12.7	0.42
2.1	20/08	8.4	0.57	10.7	0.43
2.2	21/08	8.3	0.54	10.7	0.49
4.5	04/07	8.9	0.72	12.3	0.71
4.6	03/07	8.9	0.58	11.4	
4.7	03/07	9.0	0.61	11.8	0.50
6.2	16/07	9.0	0.72	11.6	0.81
6.4	16/07	9.3	0.81	12.5	0.44
6.8	16/07	9.0	0.80	11.8	0.82
8.1	05/07	8.9	0.63	11.2	0.86
8.2	04/07	8.8	0.65	10.9	0.59
9.1	07/08	8.9	0.29	12.1	0.64
9.2	07/08	9.0	0.35	12.5	1.44
9.3	07/08	9.3	0.82	12.5	0.50
12.1	20/07	8.8	0.63	11.5	1.12
12.2	20/07	9.0	0.47	11.6	0.77
12.3	20/07	8.8	0.60	11.3	0.94
14.1	10/07	8.4	0.74	10.7	0.52
14.2	11/07	8.4	0.62	10.9	0.68
14.3	11/07	8.5	0.58	11.2	0.95
15.1	12/07	10.7	0.71	12.3	0.86
15.2	12/07	10.7	0.84	12.1	0.44
15.3	16/07	10.3	1.03	12.4	0.69
16	01/08	7.7	1.05	10.6	0.62
17.2	25/07	10.0	1.31		
17.3	25/07	10.0	1.39		
18.1	24/07	7.7	0.56	10.4	0.85
18.2	24/07	7.9	0.56	10.3	0.81
19.1	30/07	9.1	0.50	11.6	0.70
19.2	30/07	8.9	0.96	11.5	0.52
20.2	14/08	10.4	0.91		
20.6	15/08	9.8	0.89		
20.9	14/08	10.1	0.92	13.3	0.63
21.1	08/08	10.2	0.85	13.0	0.95
21.2	08/08	10.0	0.81	12.6	0.56
21.3	08/08	10.1	0.63	12.6	0.71
21.4	08/08	10.0	0.66	13.2	1.06
22.1	16/08	7.37	0.85	10.4	0.86
22.2	16/08	7.67	0.84	10.5	0.89
23	28/08	8.53	0.72	11.8	0.79
26.1	28/08	8.93	0.69	11.5	0.85
26.2	30/08	8.98	0.66	11.9	0.98

Table 12. Location, date, frequency-weighted mean length (cm) and standard deviation of the mean of two age-classes of Atlantic salmon electrofished in the Stewiacke River, 1985.

Location .site	Date dd/mm	Age-1+ Wt'd avg. length	Age-1+ Std. dev.	Age-2+ Wt'd avg. length	Age-2+ Std. dev.
1.1	02/08	9.6	0.64	13.2	0.97
1.2	02/08	9.8	0.85	12.6	0.67
8.1	05/07	8.3	0.76	12.3	0.69
8.2	04/07	8.6	0.89	12.4	0.77
9.1	07/08	8.9	0.72	13.8	0.71
9.2	07/08	9.2	0.85	12.9	0.58
9.3	07/08	8.9	0.69	14.5	0.29
15.1	12/07	9.3	0.82	12.8	0.71
15.2	12/07	9.2	0.86	12.8	0.80
15.3	16/07	9.1	0.78	12.1	0.48
18.1	24/07	7.3	0.67	10.1	1.11
18.2	24/07	7.2	0.72	10.2	1.14
23	28/08	8.5	0.77	11.6	0.95
25	28/08	10.2	0.77	12.0	0.78
27.4	15/07	9.9	1.12	13.2	0.81
28.1	18/07	7.7	1.21	10.9	0.29
28.3	18/07	8.3	1.34	11.4	0.56
29.1	10/07	8.0	0.74	11.1	0.89
29.2	10/07	8.0	0.81	10.9	0.91
29.3	10/07	7.8	0.84	10.7	0.67
30.1	08/08	9.9	0.77	12.4	0.90
30.2	08/08	9.9	0.73	12.6	0.83
32.0	06/08	8.5	0.73	11.3	0.50
33.1	15/08	8.3	0.71	11.0	0.95
34.1	14/08	8.6	0.59	11.1	0.90
34.2	14/08	8.6	0.60	11.4	0.82
34.3	14/08	8.5	0.63	11.4	0.91

Table 13. Location, date, frequency-weighted mean length (cm) and standard deviation of the mean of two age-classes of Atlantic salmon electrofished in the Stewiacke River, 1986.

		Age-1+		Age-2+	
Location .site	Date dd/mm	Wt'd avg. length	Std. dev.	Wt'd avg. length	Std. dev.
1.1	04/07	9.2	0.66	11.8	1.10
1.2	04/07	9.4	0.76	12.1	0.93
4.5	01/08	9.6	0.84	12.4	1.11
4.6	01/08	9.7	0.80	12.5	0.82
4.7	01/08	9.7	0.76	12.2	0.86
8.1	15/08	9.0	0.51	11.2	0.82
8.2	15/08	9.2	0.38	11.9	0.99
9.1	16/07	9.2	0.55	11.5	0.93
9.2	16/07	8.8	0.00	12.2	0.55
9.3	16/07			12.1	0.61
15.1	03/07	10.0	0.58	11.4	0.68
15.2	03/07	10.0	0.64	11.2	0.52
15.3	03/07	10.1	0.51	11.3	0.58
16	15/07	8.6	0.54	11.7	1.37
18.1	24/06	9.0	0.51	10.6	0.74
18.2	24/06	9.0	0.54	10.7	0.75
19.1	26/06	8.6	0.75	10.4	0.49
19.2	26/06	8.6	0.63	10.5	0.56
20.2	06/08	9.9	0.91	12.6	0.29
20.6	06/08	9.4	0.85	12.5	0.35
20.10	06/08	9.5	0.85	12.8	0.71
23	10/08	8.4	0.58	11.1	0.67
25	04/08	10.7	0.88		
27.1	24/06	10.5	1.03	12.3	0.00
27.4	24/06	10.3	0.83	12.8	0.68
28.1	23/06	7.0	0.88	9.5	0.26
28.3	23/06	8.1	0.74	10.1	0.59
29.1	23/06	8.1	0.85	10.8	0.70
29.2	23/06	8.2	0.74	11.0	0.82
29.3	23/06	8.1	0.91	10.8	0.88
30.1	23/07	9.1	0.77	10.8	0.70
30.2	23/07	8.2	0.74	11.0	0.82
30.3	23/07	8.1	0.91	10.8	0.88
32.0	02/07	8.5	1.03	11.7	0.75
33.1	10/07	7.7	0.62	10.5	0.88
33.2	10/07	7.7	0.59	10.5	1.07
34.1	09/07	7.9	0.72	10.7	1.15
34.2	09/07	7.9	0.62	10.7	0.96
34.3	09/07	8.2	0.68	10.5	0.86

Table 14. Location, date, frequency-weighted mean length (cm) and standard deviation of the mean of two age-classes of Atlantic salmon electrofished in the Stewiacke River, 1987.

Location .site	Date dd/mm	Age-1+ Wt'd avg. length	Age-1+ Std. dev.	Age-2+ Wt'd avg. length	Age-2+ Std. dev.
1.1	26/08	9.1	0.88	12.8	1.46
1.2	26/08	9.6	0.64	12.5	1.14
4.5	14/07	8.9	0.83	12.3	0.84
4.6	14/07	9.0	0.77	12.0	0.62
4.7	14/07	8.9	0.78	11.9	0.61
8.1	20/07	7.9	0.73	12.6	0.96
8.2	20/07	8.3	0.84	11.6	0.92
12.1	27/07			12.3	0.89
12.2	27/07			12.5	0.80
15.1	21/07	7.6	0.71	11.7	0.63
15.2	21/07	8.1	0.78	12.2	0.93
15.3	21/07	8.0	0.83	12.0	1.19
16	27/07	7.5	0.96	10.8	0.44
18.1	07/07	8.3	0.69	11.1	0.72
18.2	07/07	8.1	0.84	10.8	0.49
19.1	15/07	8.4	0.79	11.3	0.62
19.2	15/07	8.5	0.55	11.3	0.51
23	15/07	8.3	0.66	11.1	0.65
27.1	07/07	9.6	0.90	11.8	0.43
27.4	07/07	9.2	0.87	12.0	0.84
28.1	13/07	6.6	0.86	9.8	0.73
28.3	13/07	7.1	0.88	10.1	0.83
29.1	06/07	7.4	0.75	10.1	0.58
29.2	06/07	7.4	0.80	10.5	0.77
29.3	06/07	7.3	0.88	10.6	0.78
30.1	28/07	9.5	0.74	12.1	0.79
30.2	28/07	9.4	0.76	12.4	1.02
30.3	28/07	9.5	0.76	12.1	0.57
31.1	10/07	8.6	0.61	11.3	0.71
31.2	10/07	8.7	0.69	10.8	0.71
32.0	13/07	7.8	0.99		
33.1	26/08	8.1	0.68	10.6	1.16
33.2	26/08	8.3	0.63	10.9	1.09
34.1	25/08	8.3	0.69	11.8	1.22
34.2	25/08	8.4	0.58	11.7	1.24
34.3	25/08	8.7	0.75	11.4	0.93

Table 15. Location, date, frequency-weighted mean length (cm) and standard deviation of the mean of two age-classes of Atlantic salmon electrofished in the Stewiacke River, 1988.

Location .site	Date dd/mm	Age-1+ Wt'd avg. length	Age-1+ Std. dev.	Age-2+ Wt'd avg. length	Age-2+ Std. dev.
4.5	19/07	8.9	0.79	11.8	0.94
4.6	19/07	9.1	0.73	11.8	0.65
4.7	19/07	9.0	0.69	12.0	0.80
8.1	27/07	8.3	0.73	10.8	0.87
8.2	27/07	8.5	0.58	11.0	0.83
15.1	22/07	9.5	0.58	10.8	0.75
15.2	22/07	9.4	0.72	11.1	0.77
15.3	22/07	9.0	0.93	11.2	0.70
18.1	7/07	8.7	0.81	11.3	0.89
18.2	7/07	8.2	0.81	10.9	0.67
19.1	12/07	8.8	0.55	11.4	0.77
19.2	12/07	8.3	0.64	10.8	0.49
27.1	7/07	9.4	0.79	11.3	0.49
27.4	7/07	9.4	0.74	11.3	0.64
28.1	12/07	7.6	1.18		
28.3	12/07	8.2	1.25		
29.1	6/07	8.8	0.98	11.1	0.86
29.2	6/07	9.0	0.86	11.1	0.95
29.3	6/07	8.9	0.92	11.6	1.07
30.1	3/08	9.5	0.70	12.0	0.95
30.2	3/08	9.6	0.66	11.8	0.73
30.3	3/08	9.7	0.60	11.7	0.99
31.1	13/07	9.0	0.83	11.8	
31.2	13/07	9.0	0.72	11.3	0.87
33.1	13/07	7.8	0.56	10.6	0.91
33.2	13/07	7.8	0.67	10.3	1.06
34.1	18/07	8.2	0.70	11.1	0.64
34.2	18/07	8.5	0.56	11.5	0.79
34.3	18/07	8.5	0.47	11.8	0.87

Table 16. Location, date, area, capture data a., density estimates by size-class and coefficient of variation, of brook trout (Salvelinus fontinalis) electrofished in the Stewiacke River, 1984.

Location .site	Date dd/mm	Area m^2	Capture data <6.0 cm marks count	6.0 - 11.9 cm M	C	R	Mort	> 11.9 cm M	C	R	Mort	Trout .m^-2.10^2 6-11.9 cm	>11.9 cm	Total	<6.0 cm	Coefficient of variation 6-11.9 cm	>11.9 cm
1.2	02/08	234						1	1	0	0		0.9	0.9			****
4.5	04/07	633	1														
4.6	03/07	878	1														
6.2	16/07	1,027	1					0	1	0	0		0.1	0.1			****
6.4	16/07	1,130						1	0	0	0		0.1	0.1			****
6.8	16/07	1,260						1	1	0	0		0.2	0.2			****
8.1	05/07	984	1	12	6	1	0	15	3	2	0	4.6	2.2	6.8	0.4	48.8	25.0
8.2	04/07	761	19	10	4	0	0	13	10	3	0	1.8	5.1	6.9	****	****	35.7
9.1	07/08	484	4	10	16	5	0	8	10	5	0	6.4	3.4	9.8	2.6	30.4	25.5
9.2	07/08	451	7	22	16	7	0	5	3	0	0	10.8	1.8	12.6	3.4	24.3	****
9.3	07/08	395	5	9	12	2	0	5	3	0	0	11.0	2.0	13.0	6.1	43.9	****
12.1	20/07	336	7	8	5	1	0	9	8	4	0	8.0	5.4	13.4	7.0	47.1	27.2
12.2	20/07	407	9	16	15	6	0	9	6	1	0	9.5	8.6	18.1	5.4	26.5	48.8
12.3	20/07	327	9	1	8	0	0	3	3	0	0	2.8	1.8	4.6	****	****	****
14.2	11/07	918	0	2	1	0	0					0.3		0.3	****	****	
15.1	12/07	567	5	5	6	2	0	5	3	1	0	2.5	2.1	4.6	2.5	37.8	40.8
15.2	12/07	388	7	5	2	0	0	12	8	7	0	1.8	3.8	5.6	****	****	11.1
15.3	16/07	379	5	6	6	4	0	10	10	6	0	2.6	4.6	7.1	2.2	21.8	21.3
16	01/08	505	16	8	6	2	0	4	4	4	0	4.2	1.0	5.1	8.3	37.8	0.0
17.1	25/07	283	5	5	2	1	0	1	0	0	0	3.2	0.4	3.5	3.2	33.3	****
17.2	25/07	192	3	0	1	0	0	1	1	0	0	0.5	1.0	1.6	****	****	****
17.3	25/07	457	9	6	5	2	0					3.1		3.1	4.6	35.4	
18.1	24/07	380	19	18	15	6	1	7	4	2	0	11.7	3.5	15.2	12.3	25.9	31.6
18.2	24/07	368	9	5	2	1	0	2	1	0	0	2.4	0.8	3.3	4.4	33.3	****
19.1	30/07	273	8	13	10	4	0	4	5	3	0	11.3	2.7	14.0	6.9	30.2	25.8
19.2	30/07	210	0	16	14	7	1	13	10	6	0	15.7	10.5	26.1	0.0	22.1	21.3
20.2	14/08	1,583	1														
21.1	08/08	398						0	1	0	0		0.3	0.3			****
21.2	08/08	260		0	1	0	0	1	2	0	0	0.4	1.2	1.5		****	****
21.3	08/08	209						3	5	2	0		3.8	3.8			35.4
21.4	08/08	260						5	4	1	0		5.8				44.7
22.1	16/08	439	5	4	9	2	0	6	1	0	1	3.8	1.8	5.6	4.7	41.8	****
22.2	16/08	370	3	6	9	4	0	7	3	1	0	3.8	4.3	8.1	1.9	28.9	40.8
23	28/08	1,799		1	0	0	0					0.1		0.1		****	
26.1	28/08	181	0	2	3	1	0					3.3		3.3	0.0	40.8	
26.2	30/08	334	5	4	4	2	0	3	2	2	0	2.5	1.2	3.7	3.1	31.6	0.0

a. Counts at the mark run (M)
Total count at the capture run (C)
Numbers of recaptures in the capture run (R)
Numbers of mortalities (Mort)

**** No estimate possible, density estimated from total catch.

Table 17. Location, date, area, capture data a., density estimates by size-class and coefficient of variation, of brook trout (Salvelinus fontinalis) electrofished in the Stewiacke River, 1985.

Location .site	Date dd/mm	Area m^2	Capture data <6.0 cm marks count	6.0 - 11.9 cm M	C	R	Mort	> 11.9 cm M	C	R	Mort	Trout .m^-2.10^2 6-11.9 cm	>11.9 cm	Total	<6.0 cm	Coefficient of variation 6-11.9 cm	>11.9 cm
1.1	12/08	304		1	1	1	0	0	1	0	0	0.7	0.3	1.0		0.0	****
8.1	29/07	984	10	8	5	1	0	2	2	1	0	2.7	0.5	3.2	3.4	47.1	33.3
8.2	29/07	761	9	8	10	3	0	16	12	7	0	3.3	3.6	6.9	3.7	35.7	20.7
8.1+2	29/07	1,744	19	16	15	4	0	18	14	8	0	3.1	1.8	4.9	3.7	33.9	20.0
9.1	02/08	484	21	15	12	6	0	10	7	5	0	6.1	3.0	9.2	8.6	24.0	18.9
9.2	02/08	451	5	23	8	3	0	11	8	4	0	12.0	4.8	16.8	2.6	33.3	27.2
9.3	02/08	395	5	13	7	2	0	10	7	3	0	9.5	5.6	15.0	3.6	38.5	31.6
15.1	28/08	567						3	1	1	0		0.7	0.7			0.0
15.2	28/08	388	3	3	3	1	0	5	6	5	0	2.1	1.8	3.9	2.1	40.8	14.3
15.3	28/08	379	8	5	2	1	0	10	8	2	0	2.4	8.7	11.1	3.8	33.3	40.8
15.1+2+3	28/08	1,334	11	8	5	2	0	18	15	8	0	1.3	2.5	3.9	1.9	35.4	20.9
18.1	11/07	380	12	6	10	1	0	1	3	0	2	10.1	1.6	11.7	20.3	52.2	****
18.2	11/07	368	12	3	3	0	0					1.6		1.6	****	****	
18.1+2	11/07	748	24	9	13	1	0	1	3	0	2	9.4	0.8	10.2	25.0	53.5	****
28.1	18/07	408	8														
28.3	18/07	418		4	4	1	0	9	14	0	0	3.0	5.5	8.5		44.7	****
28.1+3	18/07	827	8	4	4	1	0	9	14	0	0	1.5	2.8	4.3	3.0	44.7	****
29.1	10/07	450	16	1	2	0	0	8	4	0	0	0.7	2.7	3.3	****	****	****
29.2	10/07	447	9	4	3	1	0	4	4	1	0	2.2	2.8	5.0	5.0	40.8	44.7
29.3	10/07	398	11	2	1	0	0	9	4	0	0	0.8	3.3	4.0	****	****	****
29.1+2+3	10/07	1,295	36	7	6	1	0	21	12	1	0	2.2	11.0	13.2	11.1	48.8	53.1
30.2	08/08	1,009									1		0.1	0.1			****
31.1	24/07	985						1 | No recapture data									
31.2	24/07	858		3				2 | " " "									
32.0	06/08	415	2	0	2	0	0	6	0	0	0	0.5	1.4	1.9	****	****	****
33.1	15/08	791		1	0	0	0					0.1		0.1		****	
34.1	14/08	690		2	3	1	0	3	3	1	0	0.9	1.2	2.0		40.8	40.8
34.2	14/08	1,088	1	3	4	1	0	7	8	3	0	0.9	1.7	2.6	0.3	44.7	33.3
34.3	14/08	680		1	1	1	0	3	4	1	0	0.3	1.5	1.8		0.0	44.7
34.1+2+3	14/08	2,459	1	6	8		0	13	15	5	0	0.6	1.5	2.2	0.1	33.3	29.9

a. Counts at the mark run (M)
Total count at the capture run (C)
Numbers of recaptures in the capture run (R)
Numbers of mortalities (Mort)

**** No estimate possible, density derived from total catch.

Table 18. Location, date, area, capture data a., density estimates by size-class and coefficient of variation, of brook trout (Salvelinus fontinalis) electrofished in the Stewiacke River, 1986.

Location .site	Date dd/mm	Area m^2	Capture data <6.0 cm marks count	6.0 - 11.9 cm M	C	R	Mort	> 11.9 cm M	C	R	Mort	Trout .m^-2.10^2 6-11.9 cm	>11.9 cm	Total	<6.0 cm	Coefficient of variation 6-11.9 cm	>11.9 cm
1.1	04/07	304		1	1	0	0					0.7		0.7		****	
4.7	01/08	878						0	1	0	0		0.1	0.1			****
8.1	15/08	984	2	13	3	1	0	6	4	0	0	2.8	1.0	3.9	0.4	40.8	****
8.2	15/08	761	2	8	7	2	0	11	4	1	0	3.2	3.9	7.1	0.8	39.5	44.7
8.1+2	15/08	1,744	4	21	10	3	0	17	8	1	0	3.5	4.6	8.1	0.7	35.7	50.9
9.1	16/07	484	19	25	18	9	0	5	7	5	0	10.2	1.7	11.9	7.8	20.8	18.9
9.2	16/07	451	29	10	14	8	0	6	9	3	0	4.1	3.9	7.9	0.0	20.0	34.6
9.3	16/07	395	20	6	5	1	0	8	7	4	0	5.3	3.6	9.0	0.0	47.1	25.0
9.1+2+3	16/07	1,334	68	41	37	18	0	19	23	12	0	6.3	2.8	9.1	10.4	15.8	18.1
15.1	03/07	567	5	11	2	2	0	2	1	0	0	2.1	0.5	2.6	1.0	0.0	****
15.2	03/07	388	11	5	1	1	0	3	2	2	0	1.5	1.0	2.6	3.4	0.0	0.0
15.3	03/07	379	5	6	5	2	0	7	10	3	0	3.7	5.8	9.5	3.1	35.4	35.7
15.1+2+3	03/07	1,334	21	22	8	5	0	12	13	5	0	2.6	2.3	4.9	2.5	21.8	28.6
16	15/07	505	13	16	17	4	0	4	4	1	0	12.1	2.5	14.6	9.8	34.7	44.7
18.1	24/06	380	9	18	4	2	0	9	1	0	2	8.3	3.2	11.5	4.2	31.6	****
18.2	24/06	368	11	6	3	0	0	1	1	1	0	2.4	0.5	3.0	13.9	****	0.0
18.1+2	24/06	748	20	24	7	2	0	10	2	1	2	8.9	2.5	11.4	7.4	39.5	29.7
19.1	26/06	273	5	3	4	1	0	5	1	0	0	3.7	2.2	5.9	6.1	44.7	****
19.2	26/06	210	1	4	1	0	0	8	7	3	0	2.4	8.6	11.0	****	****	31.6
19.1+2	26/06	483	6	7	5	1	0	13	8	3	0	5.0	6.5	11.5	4.3	47.1	33.3
20.6	06/08	1,167						1	0	0	0		0.1	0.1			****
28.3	23/06	418		4	1	0	0	5	2	2	0	1.2	1.4	2.6		****	0.0
29.1	23/06	450	13	6	4	1	0	3	4	1	0	3.9	2.2	6.1	8.4	44.7	44.7
29.2	23/06	447	12	3	5	1	0	5	4	0	0	2.7	2.0	4.7	10.7	47.1	****
29.3	23/06	398	5	4	6	0	0	4	5	1	0	2.5	3.8	6.3	11.0	****	47.1
29.1+2+3	23/06	1,295	30	13	15	2	0	12	13	2	8	5.8	5.3	11.1	13.3	45.1	39.2
30.3	23/07	562						3	1	1	0		0.7	0.7			0.0
31.1	27/06	791	17	1	1	0	0	4	2	0	0	0.3	0.8	1.0	****	****	****
31.2	27/06	1,112	13	4	1	0	0	0	2	0	0	0.4	0.2	0.6	****	****	****
31.1+2	27/06	1,903	30	5	2	0	0	4	4	0	0	0.4	0.4	0.8	****	****	****
32.0	02/07	415		0	1	0	0	3	0	0	0	0.2	0.7	1.0		****	****
33.1	10/07	791	4	1	1	0	0					0.3		0.3	****		
33.2	10/07	1,112	1														
34.1	09/07	690	6	3	5	0	0	6	3	2	0	1.2	1.4	2.5	****	****	25.0
34.2	09/07	1,088	7	3	2	2	0	8	8	1	0	0.4	3.7	4.1	0.9	0.0	50.9
34.3	09/07	680	0	0	2	0	0	4	3	1	0	0.3	1.5	1.8	****	****	40.8
34.1+2+3	09/07	2,459	13	6	9	2	0	18	14	4	0	0.9	2.3	3.3	2.1	41.8	33.3

a. Counts at the mark run (M)
Total count at the capture run (C)
Numbers of recaptures in the capture run (R)
Numbers of mortalities (Mort)

**** No estimate possible, density derived from total catch.

Table 19. Location, date, area, capture data a., density estimates by size-class and coefficient of variation, of brook trout (Salvelinus fontinalis) electrofished in the Stewiacke River, 1987.

Location .site	Date dd/mm	Area m^2	Capture data <6.0 cm marks count	6.0 - 11.9 cm M	C	R	Mort	> 11.9 cm M	C	R	Mort	Trout .m^-2.10^2 6-11.9 cm	>11.9 cm	Total	<6.0 cm	Coefficient of variation 6-11.9 cm	>11.9 cm
1.1	26/08	304	11	2	1	0	0	2	2	1	0	1.0	1.5	2.5	****	****	33.3
4.7	14/07	878		0	2	0	0	1	1	0	0	0.2	0.2	0.5	****	****	****
8.1	20/07	984	10	9	9	3	0	12	6	4	0	2.5	1.8	4.4	2.8	34.6	21.8
8.2	20/07	761	15	12	14	2	0	16	15	7	0	8.5	4.5	13.0	10.7	44.7	23.6
12.1	27/07	336	12	34	21	6	0	17	6	4	0	32.7	7.5	40.2	11.6	29.2	21.8
12.2	27/07	407	7	36	35	14	0	24	13	8	0	21.8	9.6	31.4	4.2	19.1	18.9
12.1+2	27/07	743	19	70	56	20	0	41	19	12	0	25.9	8.7	34.6	7.0	16.9	15.8
15.1	21/07	567	5	1	0	0	0	2	2	0	0	0.2	0.7	0.9	****	****	****
15.2	21/07	388	10	4	5	3	0	1	1	0	0	1.9	0.5	2.4	4.8	25.8	****
15.3	21/07	379	23	14	13	8	0	10	8	5	0	6.2	4.4	10.5	10.1	18.9	21.8
15.1+2+3	21/07	1,334	38	19	18	11	0	13	11	5	0	2.4	2.1	4.5	4.7	16.8	26.7
16	27/07	505	14	14	21	8	0	14	5	2	0	7.3	5.9	13.2	7.3	24.3	35.4
18.1	07/07	380	9	14	19	4	0	12	12	7	0	15.8	5.6	21.3	10.2	35.4	20.7
18.2	07/07	368	22	5	12	1	0	1	4	1	0	10.6	1.4	12.0	46.6	53.1	44.7
18.1+2	07/07	748	31	19	31	5	0	13	16	8	0	14.3	3.5	17.8	23.3	34.1	21.7
19.1	15/07	273	15	12	10	5	0	4	4	1	0	8.7	4.6	13.3	10.9	25.5	44.7
19.2	15/07	210	5	30	26	16	0	15	8	8	0	23.4	7.6	31.1	3.9	14.3	0.0
19.1+2	15/07	483	20	42	36	21	0	19	12	9	0	15.0	5.4	20.4	7.1	13.3	14.5
28.1	13/07	408	2														
28.3	13/07	418	2	4	0	0	0	6	6	3	0	1.0	2.9	3.9	****	****	29.3
28.1+3	13/07	827	4	4	0	0	0	6	6	3	0	0.5	1.5	2.0	****	****	29.3
29.1	06/07	450	17	9	11	4	0	8	2	2	0	5.3	2.0	7.3	10.1	31.2	0.0
29.2	06/07	447	11	8	4	1	0	1	0	0	0	5.0	0.2	5.3	6.9	44.7	****
29.3	06/07	398	11	8	21	1	0	17	19	8	0	24.9	10.1	34.9	34.2	55.0	23.5
29.1+2+3	06/07	1,295	39	25	36	6	0	26	21	10	0	10.6	4.2	14.8	16.6	31.8	20.4
30.2	28/07	1,009						2	0	0	0		0.2	0.2			****
30.3	28/07	562		1	0	0	0					0.2		0.2		****	
31.1	10/07	985	7	7	6	0	0	12	4	0	0	1.3	1.6	2.9	****	****	****
31.2	10/07	858	9	6	5	2	0	6	2	1	9	1.6	1.2	2.9	2.4	35.4	33.3
31.1+2	10/07	1,843	16	13	11	2	0	18	6	1	0	3.0	3.6	6.6	3.7	43.3	48.8
32.0	13/07	415	2	3	0	0	0	0	1	0	0	0.7	0.2	1.0	****	****	****
33.2	26/08	1,112		0	1	0	0					0.1		0.1		****	
34.1	25/08	690	17	5	5	3	0	3	6	2	0	1.3	1.4	2.7	4.4	25.8	37.8
34.2	25/08	1,088	7	8	6	3	0	10	9	9	0	1.4	1.0	2.5	1.3	29.3	0.0
34.3	25/08	680	21	4	4	2	0	9	4	1	0	1.2	3.7	4.9	6.4	31.6	44.7
34.1+2+3	25/08	2,459	35	17	15	8	0	22	19	12	0	1.3	1.4	2.7	2.7	20.9	15.8

a. Counts at the mark run (M)
Total count at the capture run (C)
Numbers of recaptures in the capture run (R)
Numbers of mortalities (Mort)

**** No estimate possible, density derived from total catch.

Table 20. Location, date, area, capture data a., density estimates by size-class and coefficient of variation, of brook trout (Salvelinus fontinalis) electrofished in the Stewiacke River, 1988.

Location .site	Date dd/mm	Area m^2	Capture data <6.0 cm marks count	6.0 - 11.9 cm M	C	R	Mort	> 11.9 cm M	C	R	Mort	Trout .m^-2.10^2 6-11.9 cm	>11.9 cm	Total	<6.0 cm	Coefficient of variation 6-11.9 cm	>11.9 cm
4.5	19/07	633						1	0	0	0		0.2	0.2			****
4.6	19/07	878		1	0	0	0					0.1		0.1		****	
4.7	19/07	878		0	1	0	0					0.1		0.1		****	
8.1	27\07	984	34	4	8	0	0	3	0	0	0	1.2	0.3	1.5	****	****	****
8.2	27\07	761	20	5	12	2	0	4	5	1	0	3.4	2.0	5.4	13.7	43.9	47.1
15.1	22/07	567	5	4	3	1	0	1	0	0	0	1.8	0.2	1.9	2.2	40.8	****
15.2	22/07	388	9	4	3	0	0	6	1	1	0	1.8	1.8	3.6	****	****	0.0
15.3	22/07	379	0	12	10	4	0	6	4	2	0	7.5	3.1	10.6	0.0	30.2	31.6
15.1+2+3	22/07	1,334	14	20	16	5	0	13	5	3	0	4.5	1.6	6.0	3.1	30.4	25.8
18.1	07/07	380	29	32	17	8	0	11	5	2	0	17.4	6.3	23.7	15.7	22.4	35.4
18.2	07/07	368	56	13	5	0	0	4	2	0	0	4.9	1.6	6.5	****	****	****
18.1+2	07/07	748	85	45	22	8	0	15	7	2	0	15.7	5.7	21.4	29.7	24.7	39.5
19.1	12/07	273	5	21	24	11	0	4	8	2	0	16.8	5.5	22.3	4.0	20.0	40.8
19.2	12/07	210	1	30	23	12	0	16	16	9	0	27.3	13.8	41.0	0.9	18.1	19.3
19.1+2	12/07	483	6	51	47	23	0	20	24	11	0	21.5	9.1	30.6	2.5	14.1	20.0
27.4	07/07	1,251						0	1	0	0		0.1	0.1			****
28.1	12/07	408	1	1	0	0	0					0.2		0.2	****	****	
28.3	12/07	418	1	4	5	1	0	8	13	4	0	3.6	6.0	9.6	0.9	47.1	32.7
28.1+3	12/07	827	2	5	5	1	0	8	13	4	0	2.2	3.0	5.2	0.9	47.1	32.7
29.1	06/07	450	15	17	7	3	0	4	6	2	0	8.0	2.6	10.6	7.1	31.6	37.8
29.2	06/07	447	21	2	9	1	0	3	3	1	0	3.4	1.8	5.1	35.2	51.6	40.8
29.3	06/07	398	17	13	10	2	0	9	8	0	0	12.8	4.3	17.2	16.9	42.6	****
29.1+2+3	06/07	1,295	53	32	26	6	0	16	17	3	0	9.8	5.9	15.7	16.3	30.4	39.4
30.1	03/08	904		1	0	0	0					0.1		0.1		****	
30.3	03/08	562		0	2	0	0	1	1	0	0	0.4	0.4	0.7		****	****
31.1	13/07	985	1	3	0	0	0	8	1	0	0	0.3	0.9	1.2	****	****	****
31.2	13/07	858		5	1	0	0	4	3	0	0	0.7	0.8	1.5		****	****
33.1	13/07	791		0	1	0	0	0	1	0	0	0.1	0.1	0.3		****	****
34.1	18/07	690	11	5	2	1	0	7	2	1	11 0	1.3	3.3	4.6	2.9	33.3	17.4
34.2	18/07	1,088	5	4	2	1	0	7	6	4	5 0	0.7	1.5	2.2	0.9	33.3	15.1
34.3	18/07	680	2					5	6	2	2 0		2.4				33.1
34.1+2+3	18/07	2,459	18	9	4	2	0	19	14	7	18 0	0.7	2.3	2.9	1.4	31.6	15.4

a. Counts at the mark run (M)
Total count at the capture run (C)
Numbers of recaptures in the capture run (R)
Numbers of mortalities (Mort)

**** No estimate possible, density derived from total catch.

Table 21. Number and relative location of brook trout (Salvelinus fontinalis) recovered outside a marking site, while conducting mark and recapture population estimates by electrofishing in the Stewiacke River during July to September, 1984 to 1988.

Location .site	Recaptured at capture run: Upstream Age-1+	Upstream Age-2+	Downstream Age-1+	Downstream Age-2+	Recaptured at marking run
1984					
8.2		1			
9.3	1				
12.2		1		1	1 @ 2+ up
15.1			1		
15.2		1			
15.3		1			1 @ 1+ & 1 @ 2+ up
19.2	1				
26.2	1				1 @ 1+ up
1985					
8.2		1			
15.1				1	
15.3	1				
29.1				1	1 @ 2+ down
29.2		1			
34.2		1			
34.3		1			
1986					
18.2	1				
19.1			1		
29.2	1				
30.3				1	
1987					
8.2	1	1			
12.1				1	
15.2				1	
15.3	1				
29.1			1		
29.3	4	1			
1988					
15.3		1			
18.2	1	1			
19.2	2	1			

Table 22. Location, date, area, capture data a., density estimates by size-class and coefficient of variation, of brown trout (Salmo trutta) electrofished in the Stewiacke River, 1984.

Location .site	Date dd/mm	Area m^2	Capture data <6.0 cm marks count	6.0 - 11.9 cm M	C	R	Mort	> 11.9 cm M	C	R	Mort	Trout .m^-2.10^2 6-11.9 cm	>11.9 cm	Total	<6.0 cm	Coefficient of variation 6-11.9 cm	>11.9 cm
4.5	04/07	633	1					2	0	0	0		0.3	0.3	****		****
4.6	03/07	878						1	1	0	0		0.2	0.2			****
4.7	03/07	878	2														
6.4	16/07	1,130						0	2	0	0		0.2	0.2			****
6.8	16/07	1,260						1	1	0	0		0.2	0.2			****
8.1	05/07	984	4	5	7	3	0	3	0	0	0	1.2	0.3	1.5	1.0	31.6	****
8.2	04/07	761	11	13	2	0	0	1	1	0	0	2.0	0.3	2.2	****	****	****
10.3	26/07	393	24	2	No recapture data			3									
10.4	26/07	357	49		No recapture data			2									
14.1	10/07	981	2	0	1	0	0	0	1	0	0	0.1	0.1	0.2	****	****	****
14.2	11/07	918	2					1	0	0	0		0.1	0.1			****
14.3	11/07	965	3	1	0	0	0	0	2	0	0	0.1	0.2	0.3	****	****	****
15.1	12/07	567	2														
15.2	12/07	388	4														
16	01/08	505	31	22	14	6	0	1	1	1	0	9.8	0.4	10.2	13.8	25.8	0.0
17.1	25/07	283	1														
17.3	25/07	457		1	2	1	0					0.7		0.7	0.0	33.3	
19.1	30/07	273						1	0	0	0		0.7	0.7			****
20.2	14/08	1,583	1														
20.9	14/08	1,160						1	0	0	0		0.2	0.2			****
22.1	16/08	439	47	8	15	2	0					10.9		10.9	64.2	45.1	
22.2	16/08	370	57	12	16	7	0	3	5	2	0	7.5	2.2	9.6	35.5	24.3	35.4
26.1	28/08	181		1	1	0	0	1	1	1	0	1.1	1.1	2.2		****	0.0
26.2	30/08	334						2	1	0	0		0.9	0.9			****

a. Counts at the mark run (M)
Total count at the capture run (C)
Numbers of recaptures in the capture run (R)
Numbers of mortalities (Mort)

**** No estimate possible, density derived from total catch.

Table 23. Location, date, area, capture data a., density estimates by size-class and coefficient of variation, of brown trout (*Salmo trutta*) electrofished in the Stewiacke River, 1985.

Location .site	Date dd/mm	Area m^2	Capture data <6.0 cm marks count	6.0 - 11.9 cm M	C	R	Mort	> 11.9 cm M	C	R	Mort	Trout .m^-2.10^2 6-11.9 cm	>11.9 cm	Total	<6.0 cm	Coefficient of variation 6-11.9 cm	>11.9 cm
8.1	29/07	984	5	1	1	1	0	5	3	1	0	0.2	1.2	1.4	1.0	0.0	40.8
8.2	29/07	761	2	2	0	0	0	1	3	0	0	0.3	0.5	0.8	****	****	****
8.1+2	29/07	1,744	7	3	1	1	0	6	6	1	0	0.2	1.4	1.6	0.5	0.0	48.8
15.1	28/08	567						1	1	0	0		0.4	0.4			****
15.2	28/08	388		0	1	0	0	0	1	0	0	0.3	0.3	0.5		****	****
15.3	28/08	379						1	0	0	0		0.3	0.3			****
23	24/07	1,799	1														
28.3	16/07	418		0	1	0	0					0.2		0.2		****	
29.1	10/07	450	1														
29.2	10/07	447		0	1	0	0					0.2		0.2		****	
30.1	08/08	904		3	3	0	0	2	0	0	0	0.7	0.2	0.9		****	****
30.2	08/08	1,009		1	3	1	0				1	0.4	0.1	0.5		40.8	****
31.1	24/07	985	1	0	1	0	0					0.1		0.1	****	****	
31.2	24/07	858	1	No recapture data													
32.0	06/08	415	19	6	2	1	4					3.5	0.2	3.7	11.1	24.1	0.0

a. Counts at the mark run (M)
Total count at the capture run (C)
Numbers of recaptures in the capture run (R)
Numbers of mortalities (Mort)

**** No estimate possible, density derived from total catch.

Table 24. Location, date, area, capture data a., density estimates by size-class and coefficient of variation, of brown trout (Salmo trutta) electrofished in the Stewiacke River, 1986.

Location .site	Date dd/mm	Area m^2	Capture data <6.0 cm marks count	6.0 - 11.9 cm M	C	R	Mort	> 11.9 cm M	C	R	Mort	Trout .m^-2.10^2 6-11.9 cm	>11.9 cm	Total	<6.0 cm	Coefficient of variation 6-11.9 cm	>11.9 cm
4.5	01/08	633		0	1	0	0	1	3	1	0	0.2	0.6	0.8		****	40.8
4.6	01/08	878						1	0	0	0		0.1	0.1			****
4.7	01/08	878						2	1	0	0		0.3	0.3			****
8.1	15/08	984						0	1	0	0		0.1	0.1			****
8.2	15/08	761		3	0	0	0	1	0	0	0	0.4	0.1	0.5		****	****
15.3	03/07	379						0	1	0	0		0.3	0.3			
16	15/07	505	2	9	3	1	0					4.0		4.0	0.9	40.8	
20.10	06/08	1,957						0	1	0	0		0.1	0.1			****
28.3	23/06	418		1	0	0	0					0.2		0.2		****	
29.1	23/06	450		2	0	0	0	2	1	1	0	0.4	0.2	0.7		****	0.0
29.2	23/06	447			1	0	0	2	2	2	0	0.2	0.7	0.9		****	0.0
29.3	23/06	398						0	1	0	0		0.3	0.3			****
29.1+2+3	23/06	1,295		2	1	0	0	4	4	3	0	0.2	0.5	0.7		****	20.0
30.1	23/07	985	1														
30.2	23/07	1,009						1	0	0	0		0.2	0.2			****
31.2		1,112	13					1	0	0	0		0.2	0.2			****
32.0	02/07	415	5	3	3	1	0	1	2	0	0	1.9	1.4	3.4	3.2	40.8	57.7

a. Counts at the mark run (M)
Total count at the capture run (C)
Numbers of recaptures in the capture run (R)
Numbers of mortalities (Mort)

**** No estimate possible, density derived from total catch.

Table 25. Location, date, area, capture data a., density estimates by size-class and coefficient of variation, of brown trout (Salmo trutta) electrofished in the Stewiacke River, 1987.

Location .site	Date dd/mm	Area m^2	Capture data <6.0 cm marks count	6.0 - 11.9 cm M	C	R	Mort	> 11.9 cm M	C	R	Mort	Trout .m^-2.10^2 6-11.9 cm	>11.9 cm	Total	<6.0 cm	Coefficient of variation 6-11.9 cm	>11.9 cm
4.5	14/07	633		0	2	0	0	3	1	1	0	0.3	0.6	0.9		****	0.0
4.6	14/07	878	1	1	0	0	0					0.1		0.1	****	****	
4.7	14/07	878		0	1	0	0	1	1	0	0	0.1	0.2	0.3		****	****
8.1	20/07	984	13	1	3	1	0	1	0	0	0	0.4	0.1	0.5	5.3	40.8	****
8.2	20/07	761	26	2	2	0	0	3	0	0	0	0.5	0.4	0.9	****	****	****
15.1	21/07	567	3	1	1	0	0					0.4		0.4	****	****	
15.2	21/07	388	13					2	2	2	0		0.8	0.8			0.0
15.3	21/07	379	9	1	3	0	0					1.1		1.1	****	****	
15.1+2+3	21/07	1,334	25	2	4	0	0	2	2	2	0	0.4	0.2	0.7	****	****	0.0
16	27/07	505	31	19	22	3	0	3	2	1	0	22.8	1.2	24.0	37.2	40.6	33.3
29.3	06/07	398						1	1	1	0		0.5	0.5			0.0
30.1	28/07	904	1					2	1	1	0		0.3	0.3			0.0
30.2	28/07	1,009						0	1	0	0		0.1	0.1			****
31.1	10/07	985		1	1	0	0					0.2		0.2		****	
31.2	10/07	858		2	0	0	0	1	1	0	0	0.2	0.2	0.5		****	****
32.0	13/07	415	8	1	2	0	0	1	0	0	0	0.7	0.2	1.0		****	****

a. Counts at the mark run (M)
Total count at the capture run (C)
Numbers of recaptures in the capture run (R)
Numbers of mortalities (Mort)

**** No estimate possible, density derived from total catch.

Table 26. Location, date, area, capture data a., density estimates by size-class and coefficient of variation, of brown trout (Salmo trutta) electrofished in the Stewiacke River, 1988.

Location .site	Date dd/mm	Area m^2	Capture data <6.0 cm marks count	6.0 - 11.9 cm M	C	R	Mort	> 11.9 cm M	C	R	Mort	Trout .m^-2.10^2 6-11.9 cm	>11.9 cm	Total	<6.0 cm	Coefficient of variation 6-11.9 cm	>11.9 cm
4.5	19/07	633	1					1	1	0	0		0.3	0.3			****
4.6	19/07	878		1	0	0	0	1	0	0	0	0.1	0.1	0.2		****	****
4.7	19/07	878		0	1	0	0					0.1		0.1		****	
8.1	27/07	984	69	3	0	0	0	3	3	0	0	0.3	0.6	0.9	****	****	****
8.2	27/07	761	20	2	0	0	0	4	7	2	0	0.3	1.8	2.0	****	****	39.5
15.1	22/07	567	8	0	1	0	0	1	1	0	0	0.2	0.7	0.9	****	****	****
15.2	22/07	388	15	2	1	0	0	1	3	0	0	0.8	2.1	2.8	****	****	****
15.3	22/07	379	5	0	2	0	0	4	2	0	0	0.5	4.0	4.5	****	****	****
15.1+2+3	22/07	1,334	28	2	4	0	0	6	6	0	0	0.4	3.7	4.1	****	****	****
27.4	07/07	1,251						0	1	0	0		0.2	0.2			****
28.3	12/07	418		0	1	0	0	0	2	0	0	0.2	0.7	1.0		****	****
29.1	06/07	450	1	1	0	0	0	1	0	0	0	0.2	0.4	0.7	****	****	****
29.2	06/07	447		2	0	0	0	1	0	0	0	0.4	0.4	0.9		****	****
29.3	06/07	398						1	0	0	0		0.5	0.5			****
29.1+2+3	06/07	1,295	1	3	0	0	0	3	0	0	0	0.2	0.3	0.5	****	****	****
31.1	13/07	985	1	1	1	0	0	5	1	1	0	0.2	0.6	0.8	****	****	0.0
31.2	13/07	858	3	1	3	0	0	10	2	0	0	0.5	3.8	4.3	****	****	****

a. Counts at the mark run (M)
Total count at the capture run (C)
Numbers of recaptures in the capture run (R)
Numbers of mortalities (Mort)

**** No estimate possible, densities derived from total catch.

Table 27. Numbers of non-salmonid fish species that were captured and counted during the mark run at electrofishing sites in the Stewiacke River, 1984.

Location .site	Eel	Sucker	Shiner	Stickle	Lamprey	Gaspereau	Striped bass	Shad
1.1	32	5	17					
1.2	21	2	13					
2.1a	23 a		3					
2.1	23		8					
2.2	28		8					
4.5	25		1					
4.6	21	1	1					
4.7	33 a				1 a			
5.2	5							
6.2	9							
6.4	42		16					
6.8	37	1						
8.1	12							
8.2	24							
9.1	15							
9.2	15							
9.3	11							
10.3	2							
10.4	6							
11.3	24							
12.1	31							
12.2	17		1					
12.3	17							
14.1	12	3	1					
14.2	32							
14.3	12							
15.1	22							
15.2	27							
15.3	31							
16.1	12			7				
17.1	3							
17.3	1							
18.1	42			2				
18.2	36							
19.1	26	2	2					
19.2	9							
20.2	>200	1	5					
20.6	63		5					
20.9	96		13					
21.1	31							
21.2	26		1					
21.3	19							
21.4	29		2					
22.1	21							
22.2	7							
23.1		7	8					
24	6		4			1	1	
25	21	56						2
26.1	7		1					
26.2	21	4						

a. Captured during the capture run.

Table 28. Numbers of non-salmonid fish species that were captured and counted during the mark run at electro-fishing sites in the Stewiacke River, 1985.

Location .site	Eel	Sucker	Lk. Chub	Shiner	Stickle	Lamprey
1.1	38			19		
1.2	28	2		17		
8.1	8					
8.2	9					
9.1	22					
9.2	16					
9.3	14					
15.1	21					
15.3	17					
18.2	22				1	1
23	23	4		9		
27.1	p		p		p	
28.1	12	3		5	2	
28.3	8	3		5	1	
29.1	54					
29.2	55		1			
29.3	30					
30.1	72			5	1	
30.2	84	19		23		
31.1	16			15	4	
31.2	116			132	5	
33	28		2	3		
34.1	28			9		
34.2	20			11		
34.3	18			2		

p. Present but not counted.

Table 29. Numbers of non-salmonid fish species that were captured and counted during the mark run at electrofishing sites in the Stewiacke River, 1986.

Location .site	Eel	Sucker	Lk. Chub	Shiner
1.1	42	4		13
1.2	31	4		7
4.5	42	4		
4.6	34	9		3
4.7	31			
8.1	21			
9.1	14			
9.3	14			
15.1	25			
15.2	30			
18.1	27	1		
18.2	23			
19.1	4		2	
19.2	1			
20.2	>200			
20.6	>50			1
20.10	p	3		
23.1	24	3		23
27.1	~350		2	
27.4	~350		4	
28.1	3		Crk.1 b.	
28.3	12	9		4
29.1	67			
29.2	43		1 a	
29.3	17		1 a	
30.1	23			9
30.2	68	3		5
31.1	27			15
31.2	30	17		35
32.1	12			
32.2	5			
33.1	18		4	3
33.2	10			3
34.1	15			6
34.2	14			
34.3	12			

a. Counted on capture run.
b. Creek chub not lake chub.
p. Present but not counted.

Table 30. Numbers of non-salmonid fish species that were captured and counted during the mark run at electro-fishing sites in the Stewiacke River, 1987.

Location .site	Eel	Sucker	Bullhead	Shiner	Perch	Stickle	Lamprey
1.1	38	19		17			
1.2	11	7		11			
4.5	47	2		1			
4.6	35	25					
4.7	53			5			1
8.1	24						
8.2	37						
12.1	24						
12.2	38	1					
15.1	16						
15.2	18						
15.3	21						
16.1	21						
18.1	65						
18.2	52						1
19.1	127			5			
19.2	86						
23.1		9		19			
27.1	150	13	2	7			
27.4	123						
28.1	18						
28.3	27						
29.1	65						
29.2	21						
29.3	57						
30.1	78	1		15		1	
30.2	51	3		5		1	1
30.3		2		3			
31.1	53	3		3		7	
31.2	67	31			1	5	
33.1	53			1			
33.2	36			3			
34.1	18						
34.2	16			3			
34.3	34			9			

Table 31. Numbers of non-salmonid fish species that were captured and counted during the mark run at electrofishing sites in the Stewiacke River, 1988.

Location .site	Eel	Sucker	Shiner	Stickle
4.5	52	2	5	
4.6	63	9	7	
4.7		9	1	
8.1	32			
8.2	38			
15.1	73			
15.2	54			
15.3	61			
18.1	61			1
18.2	88			
19.1	67		3	
19.2	81			
27.1	367	5	1	
27.2	239	5	2	
28.1	25	3		
28.2	43		4	
29.1	91	4		
29.2	73			
29.3	68			2
30.1	370	2	3	
30.2			7	1
30.3	172	2	1	
31.1	82	15	11	
31.2	116	21	37	
33.1	64	1	3	
33.2	83	1	1	
34.1	33			
34.2	27			
34.3	40			

Table 32. Area (m^2*100) by percent orthogradient and distance above the 10-m contour for the St. Mary's River.

	Area (m^2*100) by percent orthogradient interval and distance												
Dist. interval (km)	0-0.12	0.121-0.249	0.25-0.49	0.5-0.99	1-1.49	1.5-1.99	2-2.49	2.5-2.9	3-3.49	3.5-5.0	>5.0	% Total	% Total area
00-09.999	6,071	0	1,495	0	54	47	86	0	0	0	0	7,752	13
10-19.999	4,915	1,352	0	0	0	0	0	0	0	0	0	6,268	11
20-29.999	1,701	7,676	1,030	232	69	86	32	18	0	0	0	10,844	19
30-39.999	2,363	4,896	759	530	233	99	59	51	5	20	0	9,014	15
40-49.999	2,217	2,472	1,478	1,271	297	142	80	15	19	6	0	7,996	14
50-59.999	302	2,936	928	647	152	27	5	0	3	0	0	4,999	9
60-69.999	0	1,911	1,469	456	195	34	10	4	7	0	0	4,086	7
70-79.999	554	599	597	996	123	52	27	15	0	21	0	2,983	5
80-89.999	741	1,792	365	53	0	0	0	0	11	0	0	2,961	5
90-99.999	0	654	144	252	0	0	4	0	0	2	0	1,056	2
100-109.999	0	375	291	92	0	0	0	0	0	0	0	758	1
Grand total area	18,863	24,664	8,554	4,528	1,123	487	302	102	44	49	0	58,717	100
Percent total area	32.1	42	14.6	7.7	1.9	0.8	0.5	0.2	0.1	0.1	0		

Table 33. Location, name and contour intervals on orthophotographic maps where physical and electrofishing surveys were conducted in the St. Mary's River, 1985 and 1986.

Location number	River Name	Contour interval (m)
1	Archibald Brook	30-35
2	Archibald Brook	40-45
3	Archibald Brook Y4	20-25
4	McKeens Brook	30-35
5	Indian Man Brook	50-55
6	Archibald Brook Y9 (Glencross Brook)	85-90
7	MacKay Brook	95-100
8	Mitchell Brook	70-75
9	West Branch	60-65
10	Moose River	115-120
11	Bryden Brook	105-110
12	Middle Bryden Brook	120-125
13	West Branch	95-100
14	South Brook	160-165
15	Castley Brook	165-170
16	North Nelson	160-165
17	Mitchell Brook	90-95
18	Chisholm Brook	110-115
19	East Branch St. Mary's	30-35
20	Big Meadow Brook	35-40
21	East Branch	110-114
22	MacKay's Brook	90-95
23	Moose River	120-125
24	Moose River	195-200

Y. includes historical index electrofishing site

Table 34. Description of sites surveyed in the St. Mary's River, 1985 and 1986, by proximate-measured and orthophotographic map-measured attributes.

Location .site	Total area (m^2)	Area < 5.0% grade (m^2)	Surface grade (%)	Area wt'd surf.grad (%)	Ortho grade (%)	Distance at start (km)	Site length (m)	Ortho area (m^2)
1.1	1,338	1,303	1.88	1.77	-	5.667	113	
1.2	1,089	869	2.02	0.92	-	5.780	69	
1.1+2	2,427	2,172	1.93	1.43	2.80		182	d
2.1	934	853	2.80	2.19	-	6.309	69	
2.2	690	690	1.65	1.62	-	6.378	67	
2.1+2	1,624	1,543	2.24	1.93	3.70		136	d
3.1	298	298	0.72	0.65	-	19.212	75	c
3.2	678	678	0.55	0.78	-	19.287	102	c
3.1+2	976	976	0.62	0.74	0.23		177	c
4.2	783	783	0.69	0.64	-	26.670	101	c
4.4	673	673	0.87	0.89	-	26.873	105	c
4.2+4	1,456	1,456	0.44	0.75	1.00		206	c
5.1	536	485	1.58	1.06	4.32	34.943	115	290 a
6.1	335	313	1.78	1.16	-	33.881	92	c
6.2	375	375	1.04	1.03	-	33.973	95	c
6.1+2	710	688	1.41	1.09	2.78		187	378 a
7.1	332	332	0.61	0.64	-	40.931	106	e
7.2	428	428	0.73	0.63	-	41.037	107	e
7.1+2	760	760	0.67	0.63	0.95		213	e
8.1	393	380	2.22	2.02	3.90	49.903	128	d
9.1	3,510	3,510	0.31	0.31	-	45.872	96	c
9.2	3,393	3,393	0.05	0.06	-	45.968	97	c
9.1+2	6,903	6,903	0.18	0.19	0.09		193	c
10.2	1,109	1,109	0.22	0.18	-	57.173	99	c
10.8	681	681	0.63	0.55	-	57.806	96	c
10.2+8	1,790	1,790	0.31	0.32	0.56		195	c
11.1	382	382	0.60	0.53	-	67.951	106	c
11.1-6	2,310	2,287	0.60	0.39	0.45	67.951	583	c
12.1	182	182	1.24	1.16	2.64	69.669	86	c
13.1	2,447	2,447	0.46	0.48	-	67.727	96	c
13.2	2,206	2,206	0.32	0.32	-	67.823	102	c
13.1+2	4,653	4,653	0.39	0.40	0.19		198	c
14.1	441	414	2.71	2.50	5.44	88.656	93	e
14.2	538	485	2.90	2.47	-	88.749	111	e
14.1+2	989	899	2.81	2.48	-		204	e
15.1	416	416	0.94	0.96	-	90.629	96	c
15.2	274	274	0.64	0.62	-	90.725	63	c
15.1+2	690	690	0.82	0.82	0.82		159	c
16.1	560	560	0.25	0.25	-	91.980	95	c
16.2	554	554	0.32	0.32	-	92.075	101	c
16.1+2	1,114	1,114	0.29	0.29	0.22		196	c
16.20	851	851	0.43	0.39	-	93.882	114	c
16.21	706	706	0.40	0.39	-	93.996	103	c
16.20+21	1,557	1,557	0.42	0.39	0.22		217	c
17	409	306	3.16	1.93	6.48	50.578	87	e
18	786	745	1.60	1.46	7.15	56.193	115	e
19.1	1,599	1,599	0.00	0.00	-	30.313	60	c
19.2	1,636	1,636	0.89	0.91	-	30.373	55	c
19.1+2	3,235	3,235	0.43	0.46	0.20		115	c

Table 34. Cont'd

Location .site	Total area (m^2)	Area < 5.0% grade (m^2)	Surface grade (%)	Area wt'd surf.grad (%)	Ortho grade (%)	Distance at start (km)	Site length (m)	Ortho area (m^2)
20.1	366	366	1.46	1.45	-	27.237	89	c
20.2	486	478	1.25	1.04	-	27.326	107	c
20.1+2	852	844	1.35	1.22	2.64		196	585 a
21.1	1,457	1,457	0.23	0.22	-	49.247	108	c
21.2	1,019	1,019	1.24	1.48	-	49.355	101	c
21.1+2	2,476	2,476	0.72	0.74	0.17		209	c
22	426	258	6.21	1.35	7.11	40.861	72	e
23.1	865	865	0.32	0.37	-	59.501	101	c
23.2	808	808	0.57	0.61	-	59.602	103	c
23.1+2	1,673	1,673	0.44	0.49	0.29		204	c
24	381	369	1.76	1.58	4.95	71.989	108	c

a. Area derived using some interpolated widths.
b. No sub-sample proximate grades in the St. Mary's data.
c. Not a contour-to-contour reach.
d. Above remote-measurable widths.
e. Above remote survey limit.

Table 35. Location, date, area, capture data a., density estimates by age-class and coefficient of variation, of Atlantic salmon electrofished in the Saint Mary's River, 1985.

Location .site	Date dd/mm	Area m^2	Capture data: Age-0+ marks count	Age-1+ M	Age-1+ C	Age-1+ R	Age-1+ Mort	Age-2+ M	Age-2+ C	Age-2+ R	Age-2+ Mort	Parr .m^-2.10^2: age-1+	age-2+	total	age-0+	Coefficient of variation: age-1+	age-2+
1.2	08/08	1,303	2	26	16	4	0	5	5	2	0	7.0	0.9	8.0	0.5	34.3	35.4
2.1	08/08	853		10	16	1	0	6	5	2	0	11.0	1.6	12.6		54.2	35.4
2.2	08/08	690		15	7	1	0	1	2	0	0	9.3	0.4	9.7		50.0	****
2.1+2	08/08	1,543		25	23	2	0	7	7	2	0	13.5	1.4	14.9		46.8	39.5
3.1	14/08	298	10	12	14	6	0	1	3	2	0	9.3	0.9	10.2	7.8	25.8	25.0
3.2	14/08	678	10	22	24	10	0	1	1	0	0	7.7	0.3	8.0	3.5	21.6	****
3.1+2	14/08	976	20	34	38	16	0	2	4	2	0	8.2	0.5	8.7	4.8	17.7	31.6
4.2	21/08	783	14	29	29	20	0	2	2	2	0	5.5	0.4	5.9	2.6	11.7	0.0
4.4	21/08	673	17	19	21	12	0					5.0		5.0	4.5	17.1	
4.2+4	21/08	1,456	31	48	50	32	0	2	2	2	0	5.2	0.2	5.4	3.4	10.2	0.0
5.1	02/08	485	47	18	21	5	0	6	14	2	0	14.4	7.2	21.6	37.5	32.2	44.7
6.1	14/08	313		15	20	8	0	1	1	1	0	11.9	0.6	12.6		23.9	0.0
6.2	14/08	375		10	13	3	0	1	1	0	0	10.3	0.5	10.8		37.8	****
6.1+2	14/08	688		25	33	11	0	2	2	1	0	10.7	0.7	11.4		22.3	33.3
7.1	02/08	332		4	8	1	0					6.8		6.8		50.9	
7.2	02/08	428		0	5	0	0	0	1	0	0	1.2	0.2	1.4		****	****
7.1+2	02/08	760		4	13	1	0	0	1	0	0	4.6	0.1	4.7		53.5	****
8.1	31/07	380	1	26	11	5	1	2	2	1	0	14.5	1.2	15.7	0.6	26.2	33.3
9.1	09/08	3,510	170	20	38	4	0	10	8	1	0	4.7	1.4	6.1	39.7	38.1	50.9
9.2	09/08	3,393	26	9	17	0	0	6	7	0	0	0.8	0.4	1.1	****	****	****
9.1+2	09/08	6,903	196	29	55	4	0	16	15	1	0	4.9	2.0	6.8	32.8	39.0	54.0
10.2	19/08	1,109	18	2	1	0	0	0	1	0	0	0.3	0.1	0.4	****	****	****
10.8	19/08	681	48	15	20	5	0					8.2		8.2		31.9	
10.2+8	19/08	1,790	66	17	21	5	0	0	1	0	0	3.7	0.1	3.7	14.3	32.2	****
11.1	27/08	382	49	20	2	1	0	1	0	0	0	8.2	0.3	8.5	20.2	33.3	****
12.1	27/08	182		10	7	4	0	5	0	0	0	9.7	2.7	12.4		25.0	****
13.1	30/07	2,447	83	14	10	0	0	3	4	0	0	1.0	0.3	1.3	****	****	****
13.2	30/07	2,206	34	19	12	2	0	2	2	0	0	3.9	0.2	4.1	7.0	43.9	****
13.1+2	30/07	4,653	117	33	22	2	0	5	6	0	0	5.6	0.2	5.8	19.9	46.6	****
14.1	16/07	414		19	19	8	0	0	2	0	0	10.7	0.5	11.2		23.5	****
15.1	23/07	416		8	7	6	0	1	1	0	0	2.8	0.8	3.0		12.8	****
15.2	23/07	274		5	4	2	0					3.6		3.6		31.6	
15.1+2	23/07	690		13	11	8	0	1	1	0	0	2.7	0.3	3.0		15.8	****
16.1	23/07	560		20	25	11	0	1	2	1	0	8.1	0.5	8.7		20.4	33.3
16.2	23/07	554		30	29	14	0	2	2	2	0	11.2	0.5	11.7		17.7	0.0
16.1+2	23/07	1,114		50	54	25	0	3	4	3	0	9.7	0.4	10.1		14.0	20.0
16.20	16/07	851		11	19	6	0	1	0	0	0	4.0	0.1	4.1		28.5	****
16.21	16/07	706		20	28	9	0					8.6		8.6		24.4	
16.20+21	16/07	1,557		31	47	15	0	1	0	0	0	6.2	0.1	6.2		19.8	****

a. Counts at the mark run (M)
Total count at the capture run (C)
Numbers of recaptures in the capture run (R)
Numbers of mortalities (Mort)

**** No estimate possible, density derived from total catch.

Table 36. Location, date, area, capture data a., density estimates by age-class and coefficient of variation, of Atlantic salmon electrofished in the St. Mary's River, 1986.

Location .site	Date dd/mm	Area m^2	Capture data: Age-0+ marks count	Age-1+ M	Age-1+ C	Age-1+ R	Age-1+ Mort	Age-2+ M	Age-2+ C	Age-2+ R	Age-2+ Mort	Parr .m^-2.10^2: age-1+	age-2+	total	age-0+	Coefficient of variation: age-1+	age-2+
2.1	24/07	1,303		46	44	23	0	6	5	3	0	6.8	0.8	7.6		13.7	25.8
2.2	24/07	869		29	36	16	0	3	2	1	0	7.5	0.7	8.2		17.3	33.3
2.1+2	24/07	2,172		75	80	39	0	9	7	4	0	7.1	0.7	7.8		11.1	25.0
3.1	30/07	298	30	23	14	11	0	3	3	3	0	10.1	1.3	11.4	13.1	12.4	0.0
3.2	30/07	678	37	49	48	32	1	9	9	8	0	11.1	1.6	12.7	8.4	9.7	10.0
3.1+2	30/07	976	67	72	63	44	1	12	12	11	0	10.7	1.4	12.2	10.0	8.0	7.7
4.2	25/07	783	25	29	34	14	0	3	1	0	0	8.9	0.5	9.5	7.7	18.9	****
4.4	25/07	673	26	30	32	16	2	1	3	0	0	9.2	0.6	9.8	8.0	15.9	****
4.2+4	25/07	1,456	51	59	66	30	2	4	4	0	0	9.0	0.5	9.6	7.8	12.8	****
5.1	05/08	485	124	44	28	20	0	8	8	7	0	12.8	2.1	14.9	36.1	11.2	11.1
6.1	15/08	313		2	2	2	0	8	5	4	0	1.0	3.5	4.4		0.0	16.7
6.2	15/08	375	2	4	2	2	0	5	2	2	0	1.3	1.6	2.9	0.7	0.0	0.0
6.1+2	15/08	688	2	6	4	4	0	13	7	6	0	1.0	2.3	3.3	0.3	0.0	12.5
7.1	15/07	332	9	10	10	8	0	4	1	1	0	4.0	1.5	5.6	3.6	13.5	0.0
7.2	15/07	428	114	8	4	2	0					3.5	0.2	3.7	49.9	31.6	0.0
7.1+2	15/07	760	123	18	14	10	0	4	1	1	0	3.4	0.7	4.1	23.3	14.9	0.0
8.1	30/07	380		10	16	7	0	4	2	2	0	6.2	1.3	7.5		24.3	0.0
9.1	12/08	3,510	299	85	79	31	2	1	2	0	0	6.2	0.1	6.3	21.7	13.4	****
9.2	12/08	3,393	81	28	36	12	1	3	1	0	0	2.5	0.1	2.6	7.1	21.3	****
9.1+2	12/08	6,903	380	116	117	35	3	4	3	0	0	5.6	0.1	5.7	18.3	13.6	****
10.2	16/07	1,109	13	3	3	2	0					0.5		0.5	2.1	25.0	
10.8	16/07	681	44	18	12	12	0	1	1	1	0	2.8	0.3	3.1	6.8	0.0	0.0
10.2+8	16/07	1,790	57	21	15	14	0	1	1	1	0	1.3	0.1	1.4	3.6	6.3	0.0
12.1	22/07	182	74	2	2	2	0	4	4	3	0	1.6	3.4	5.1	61.0	0.0	20.0
13.1	07/08	2,447	145	79	93	41	0	0	6	0	0	7.3	0.2	7.6	13.4	11.3	****
13.2	07/08	2,206	117	55	84	21	1	14	10	4	0	9.9	1.5	11.3	21.0	17.9	30.2
13.1+2	07/08	4,653	262	134	184	69	1	14	16	4	0	7.7	1.1	8.8	15.0	9.3	34.3
14.1	22/07	414	34	16	18	11	0	6	6	6	0	6.5	1.7	8.2	13.8	16.8	0.0
14.2	22/07	485	28	15	11	4	0	8	5	5	0	7.9	1.9	9.8	14.8	31.2	0.0
14.1+2	22/07	899	62	31	29	15	0	14	11	11	0	6.7	1.7	8.3	13.3	16.6	0.0
16.1	17/07	560	19	5	5	3	0	2	3	1	0	1.6	1.1	2.7	6.1	25.8	40.8
16.2	17/07	554	59	6	4	2	2	4	6	2	0	2.5	2.1	4.6	24.3	27.0	37.8
16.1+2	17/07	1,114	78	11	9	5	2	6	9	3	0	2.0	1.6	3.5	14.0	21.7	34.6
16.20	17/07	851	31	1	3	1	0	1	2	0	0	0.5	0.4	0.8	14.6	40.8	****
16.21	17/07	706	51	13	10	7	0	8	6	3	1	2.7	2.4	5.1	10.7	17.4	27.5
16.20+21	16/07	1,557	82	14	13	8	0	9	8	3	1	1.5	1.5	3.0	8.8	18.9	31.9
17.1	30/07	306		0	0	0	0	1	0	0	0	0.0	0.3	0.3			****
18	08/08	745		0	0	0	0	0	0	0	0	0.0	0.0	0.0			
19.1	11/07	1,599		0	0	0	0	1	0	0	0	0.0	0.1	0.1			****
19.2	11/07	1,636	96	60	66	30	0	11	3	1	0	8.1	1.5	9.5	12.9	13.0	40.8
20.1	17/07	336	55	27	22	16	3	7	7	3	0	12.2	4.8	16.9	24.8	11.2	31.6
20.2	17/07	478	89	29	25	19	0	3	3	1	0	8.2	1.7	9.8	25.0	10.5	40.8
20.1+2	17/07	814	144	56	48	36	3	10	10	4	0	9.6	3.0	12.6	24.8	7.7	30.2
21.1	29/07	1,457	11	13	13	7	0	1	0	0	0	1.7	0.1	1.8	1.4	21.8	****
21.2	29/07	1,019	17	19	15	10	0	6	2	1	0	2.9	1.0	3.9	2.6	16.1	33.3
21.1+2	29/07	2,476	28	32	28	17	0	7	2	1	0	2.1	0.5	2.6	1.9	14.1	33.3
22.1	15/07	258	16	18	12	9	2	4	1	1	0	10.3	1.9	12.3	9.2	13.4	0.0
23.1	21/07	865	23	7	5	4	0	1	1	0	0	1.1	0.2	1.3	3.6	16.7	****
23.2	21/07	808	16	24	26	16	0	3	4	2	0	4.9	0.8	5.7	3.3	14.3	31.6
23.1+2	21/07	1,673	39	31	31	30	0	4	5	2	0	2.0	0.6	2.6	2.5	3.1	35.4
24.1	23/07	369		9	5	4	0	9	12	5	0	3.3	5.9	9.1		16.7	27.7

a. Counts at the mark run (M)
Total count at the capture run (C)
Numbers of recaptures in the capture run (R)
Numbers of mortalities (Mort)

**** No estimate possible, density derived from total catch.

Table 37. Year, location, site, area, numbers of M (marked), C (captures) and R (recaptures) of age 3+ Atlantic salmon electrofished in the St. Mary's River.

Year	Location .site	Area m^2	M	C	R	Parr .m^-2.10^2
1986	2.2	1,383	1	2	1	0.2
1986	13.2	2,206	1	0	0	0.05
1986	14.1	414	1	a.0	0	0.2
1986	21.2	1,019	1	1	1	0.1

a. This is a 4+ parr
**** No estimate possible, density derived from total catch.

Table 38. Location, date, frequency-weighted mean length (cm) and standard deviation of the mean of two age-classes of Atlantic salmon. electrofished in the St. Mary's River, 1985.

		Age-1+		Age-2+	
Location .site	Date dd/mm	Wt'd. mean length	Std. dev.	Wt'd. mean length	Std. dev.
1.2	08/08	12.27	0.86	15.63	0.52
2.1	08/08	12.41	0.85	15.41	0.41
2.2	08/08	12.32	1.08	16.25	0.71
3.1	14/08	10.03	1.21	15.75	0.71
3.2	14/08	9.61	0.95	14.50	0.35
4.2	21/08	12.61	0.91	15.75	0.00
4.4	21/08	12.46	1.08		
5.1	02/08	10.61	0.80	14.19	1.30
6.1	14/08	10.97	0.87	13.75	0.00
6.2	14/08	11.95	0.86	14.75	0.00
7.1	02/08	12.25	0.87		
7.2	02/08	10.65	0.74	15.75	0.00
8.1	31/07	10.67	0.67	14.50	0.71
9.1	09/08	10.94	0.78	16.51	1.00
9.2	09/08	10.77	0.81	13.79	0.95
10.2	19/08	12.25	1.32	16.25	0.00
10.8	19/08	11.20	0.92		
11.1	27/08	10.54	1.38	14.25	0.00
12.1	27/08	10.79	0.75	13.85	0.55
13.1	30/07	10.91	0.86	14.25	1.18
13.2	30/07	10.87	0.72	13.00	0.87
14.1	16/07	11.00	0.76	15.50	1.06
15.1	23/07	11.19	0.68	14.25	0.00
15.2	23/07	11.25	0.58		
16.1	23/07	10.88	0.91	15.75	0.00
16.2	23/07	10.59	0.90	14.50	1.77
16.20	23/07	10.92	0.87	16.25	0.00
16.21	16/07	10.65	0.98		

Table 39. Location, date, frequency-weighted mean length (cm) and standard deviation of the mean of two age-classes of Atlantic salmon electrofished in the St. Mary's River, 1986.

		Age-1+		Age-2+	
Location .site	Date dd/mm	Wt'd. mean length	Std. dev.	Wt'd. mean length	Std. dev.
2.1	24/07	12.18	0.85	15.39	0.75
2.2	24/07	11.99	0.79	15.13	0.63
3.1	30/07	10.38	0.87	13.08	0.58
3.2	30/07	10.58	0.76	12.75	0.47
4.2	25/07	11.13	0.77	13.25	0.00
4.4	25/07	11.17	0.75	13.75	0.00
5.1	05/08	10.27	0.91	13.36	0.55
6.1	15/08	12.75	0.00	14.08	0.71
6.2	15/08	12.25	0.71	15.05	0.91
7.1	15/07	11.17	0.70	14.63	0.63
7.2	15/07	10.70	0.64		
8.1	30/07	10.99	0.75	14.13	0.25
9.1	12/08	10.79	0.96	13.92	0.58
9.2	12/08	11.07	0.84	13.75	0.71
10.2	16/07	10.25	0.91		
10.8	16/07	10.27	0.88	13.75	0.00
12.1	22/07	11.25	0.71	13.05	0.45
13.1	07/08	11.16	0.89	14.88	0.52
13.2	07/08	11.21	0.94	14.32	0.58
14.1	22/07	11.38	0.96	14.50	0.69
14.2	22/07	11.34	0.77	14.56	0.59
16.1	17/07	11.04	0.76	14.00	0.65
16.2	17/07	11.13	0.74	13.69	0.56
16.20	17/07	10.75	0.00	13.38	0.85
16.21	17/07	11.03	0.63	14.52	0.56
19.2	11/07	11.57	1.04	15.07	0.64
20.1	17/07	10.51	0.71	14.20	1.11
20.2	17/07	10.31	0.73	13.38	1.03
21.1	29/07	11.64	0.72		
21.2	29/07	11.16	0.96	13.67	0.80
22.1	15/07	10.37	0.72	12.88	0.63
23.1	21/07	10.13	0.44	13.25	1.41
23.2	21/07	10.34	0.76	13.45	0.57
24.1	23/07	10.92	0.79	12.84	0.67

Table 40. Location, date, area, capture data a., density estimates by size-class and coefficient of variation, of brook trout (Salvelinus fontinalis) electrofished in the St. Mary's River, 1985.

Location .site	Date dd/mm	Area m^2	Capture data <6.0 cm marks count	6.0 - 11.9 cm M	C	R	Mort	> 11.9 cm M	C	R	Mort	Trout .m^-2.10^2 6-11.9 cm	>11.9 cm	Total	<6.0 cm	Coefficient of variation 6-11.9 cm	>11.9 cm
1.2	08/08	1,303		1	0	0	0	2	0	0	0	0.1	0.2	0.2		****	****
2.1	08/08	853	1					1	3	0	0		0.5	0.5	****		****
2.2	08/08	690	2					2	1	0	0		0.4	0.4	****		****
2.1+2	08/08	1,543	3					3	4	0	0		0.5	0.5	****		****
3.1	14/08	298	1	2	1	0	0	0	3	0	0	1.0	1.0	2.0	****	****	****
3.2	14/08	678	1					1	0	0	0		0.1	0.1	****		****
3.1+2	14/08	976	2	2	1	0	0	1	3	0	0	0.3	0.4	0.7	****	****	****
4.2	21/08	783						1	1	0	0		0.3	0.3			****
4.4	21/08	673						0	1	0	0		0.1	0.1			****
4.2+4	21/08	1,456						1	2	0	0		0.2	0.2			****
5.1	02/08	485	1	3	2	1	0	1	6	0	0	1.2	1.4	2.7	0.4	33.3	****
6.1	14/08	313		2	2	2	0	3	1	1	0	1.0	1.3	2.2		0.0	0.0
6.2	14/08	375						1	2	1	0		0.8	0.8			33.3
6.1+2	14/08	688		2	2	2	0	4	3	2	0	0.4	1.0	1.4		0.0	25.0
7.1	02/08	332	12	6	13	1	0	25	31	6	0	14.8	35.8	50.6	29.5	53.5	31.3
7.2	02/08	428	13	6	17	2	0	15	25	4	0	9.8	19.4	29.3	21.3	45.6	36.7
7.1+2	02/08	760	25	12	30	3	0	40	56	10	0	13.3	28.0	41.2	27.6	41.7	25.9
8.1	31/07	380	2	16	8	3	0	7	7	2	0	10.1	5.6	15.7	1.3	33.3	39.5
11.1	27/08	382	1					1	0	0	0		0.3	0.3	****		****
12.1	27/08	182	3					4	3	1	0		5.5	5.5	****		40.8
14.1	16/07	414		1	0	0	0	1	0	0	0	0.2	0.2	0.5		****	****
15.1	23/07	416	8	15	14	4	0	17	11	5	0	11.5	8.7	20.2	6.2	33.3	26.7
15.2	23/07	274	6	9	11	1	0	10	6	1	0		14.1	14.1	14.6		48.8
15.1+2	23/07	690	14	24	25	5	0	27	17	6	0	15.7	10.4	26.1	9.2	33.1	27.6
16.1	23/07	560						1	0	0	0		0.2	0.2			****
16.2	23/07	554						1	0	0	0		0.2	0.2			****
16.1+2	23/07	1,114						2	0	0	0		0.2	0.2			****
16.20	16/07	851						0	2	0	0		0.2	0.2			****
16.21	16/07	706		0	1	0	0	1	1	0	0	0.1	0.3	0.4		****	****
16.20+21	16/07	1,557		0	1	0	0	1	3	0	0	0.1	0.5	0.6		****	****

a. Counts at the mark run (M)
Total count at the capture run (C)
Numbers of recaptures in the capture run (R)
Numbers of mortalities (Mort)

**** No estimate possible, density derived from total catch.

Table 41. Location, date, area, capture data a., density estimates by size-class and coefficient of variation, of brook trout (Salvelinus fontinalis) electrofished in the St. Mary's River, 1986.

Location .site	Date dd/mm	Area m^2	Capture data <6.0 cm marks count	6.0 - 11.9 cm M	C	R	Mort	> 11.9 cm M	C	R	Mort	Trout .m^-2.10^2 6-11.9 cm	>11.9 cm	Total	<6.0 cm	Coefficient of variation 6-11.9 cm	>11.9 cm
2.1	24/07	1,303		1	1	1	0	9	6	2	0	0.2	1.8	1.9		0.0	37.8
2.2	24/07	869		2	2	0	0	8	6	5	0	0.5	1.2	1.7		****	14.3
2.1+2	24/07	2,172		3	3	1	0	17	12	7	0	0.4	1.3	1.7		40.8	20.7
3.1	30/07	298	3	10	1	0	1	4	3	2	0	4.0	2.2	6.3	2.3	****	25.0
3.2	30/07	678	14	2	3	1	0	2	2	0	0	0.6	0.6	1.2	6.2	40.8	****
3.1+2	30/07	976	17	12	4	1	1	6	5	2	0	3.4	1.4	4.9	4.9	43.4	35.4
4.2	25/07	783						1	1	0	0		0.3	0.3			****
4.4	25/07	673		1	0	0	0	2	3	0	0	0.1	0.7	0.8		****	****
4.2+4	25/07	1,456		1	0	0	0	3	4	0	0	0.1	0.5	0.5		****	****
5.1	05/08	485	2	5	3	2	0	2	2	0	0	1.6	0.8	2.5	0.7	25.0	****
6.1	15/08	313	1	8	2	0	0					3.2		3.2	****	****	
6.2	15/08	375	1	14	7	2	0	2	1	1	0	10.7	0.8	11.5	0.8	39.5	0.0
6.1+2	15/08	688	2	22	9	2	0	2	1	1	0	11.1	0.4	11.6	1.0	41.8	0.0
7.1	15/07	332	47	11	14	4	0	10	7	3	0	10.8	6.6	17.5	46.3	33.3	31.6
7.2	15/07	428		15	7	5	0	12	1	1	0	5.0	3.0	8.0		18.8	0.0
7.1+2	15/07	760	47	26	21	9	0	22	8	4	0	7.8	5.4	13.3	14.1	22.3	27.2
8.1	30/07	380	3	20	3	1	0	18	13	12	0	11.1	5.4	16.4	1.7	40.8	7.1
12.1	22/07	182	15	2	2	1	0	6	4	4	0	2.5	3.8	6.3	18.5	33.3	0.0
14.2	22/07	485		1	0	0	0	0	1	0	0	0.2	0.2	0.4		****	****
16.1	17/07	560		1	1	0	0					0.4		0.4		****	
16.2	17/07	554		1	1	0	0					0.4		0.4		****	
16.1+2	17/07	1,114		2	2	0	0					0.4		0.4		****	
16.20	17/07	851		1	0	0	0	1	2	1	0	0.1	0.4	0.5		****	33.3
16.21	17/07	706						5	1	0	0		0.8	0.8			****
16.20+21	16/07	1,557		1	0	0	0	6	3	1	0	0.1	0.9	1.0		****	40.8
17	30/07	306	2	9	0	0	0	11	0	0	0	2.9	3.6	6.5	****	****	****
18	08/08	745	5	25	0	0	1	9	0	0	0	3.5	1.2	4.7	****	****	****
20.1	17/07	336	7	10	0	0	1	7	10	6	0	3.3	3.7	7.0	****	****	21.3
20.2	17/07	478		2	4	3	0	4	1	0	0	0.8	1.0	1.8		20.0	****
20.1+2	17/07	814	7	12	4	3	1	11	11	6	0	2.1	2.5	4.6	1.2	18.8	22.8
22.1	15/07	258	11	13	5	1	0	9	7	3	0	16.3	7.8	24.0	13.8	47.1	31.6
24.1	23/07	369	32	41	24	18	1	13	13	5	0	15.2	8.9	24.1	11.9	10.8	28.6

a. Counts at the mark run (M)
Total count at the capture run (C)
Numbers of recaptures in the capture run (R)
Numbers of mortalities (Mort)

**** No estimate possible, density derived from total catch.

Table 42. Numbers of non-salmonid fish species that were captured and counted during the mark run at electrofishing sites in the St. Mary's River in 1985.

Location .site	Eel	Sucker	Chub	Shiner	Dace	Gaspereau	Lamprey	Killifish
1.2	90	2						
2.1	48							
2.2		3						
3.1	25	4	1					
3.2	29	6		1	2			
4.2	46		1	2				
4.4	76					1		
5.1	23		5	2				
6.1	45	1a						
7.1	10							
7.2	7a							
8.1	27							
9.1	130	3	5		1			
9.2		5	7		2			
10.2	33	2	5				1	
10.8	76							
11.1		1		3				
12.1	1							
13.1	65	8		39			1	
13.2	54	17	29				2	1
14.1	28			12				
15.1	38						1	
15.2	25							
16.1	18	2		4			1	
16.2	32	2		9				
16.20	30	1		5				
16.21	47	2		21				

a. Captured during the capture run.

Table 43. Numbers of non-salmonid fish species that were captured and counted during the mark run at electrofishing sites in the St. Mary's River in 1986.

Location .site	Eel	Sucker	Chub	Shiner	Dace	Lamprey	Killifish	Stickle
2.1	39	2						
2.2	18	10						
3.1	18	12	2	1a		2		
3.2	49	12	2			2		
4.2	74	1						
5.1	32	3	1a					
6.1	32		2					
6.2	23		1					
7.1	7a							
7.2	8							
8.1	21							
9.1	142	1	9a				1	
9.2	212	18	15	10				1
10.2	47	3		3				1
10.8	57a	2						
12.1	6							
13.1	165	23	28	18				4a
13.2	112	11	22	3	13	1		
14.1	19							
16.1	31			5				
16.2	28			3				
16.20	32			5a				
16.21		3		7				
17	7							
18	49							
19.1	87	6				1		
19.2	137							
20.2	28							
20.4	24							
21.1	165	4	13	2		6		
21.2	225	1a		36				
22.1	15a							
23.1	40	20				5a		
23.2	57					2a		
24.1	4					2		

a. Captured during the capture run.

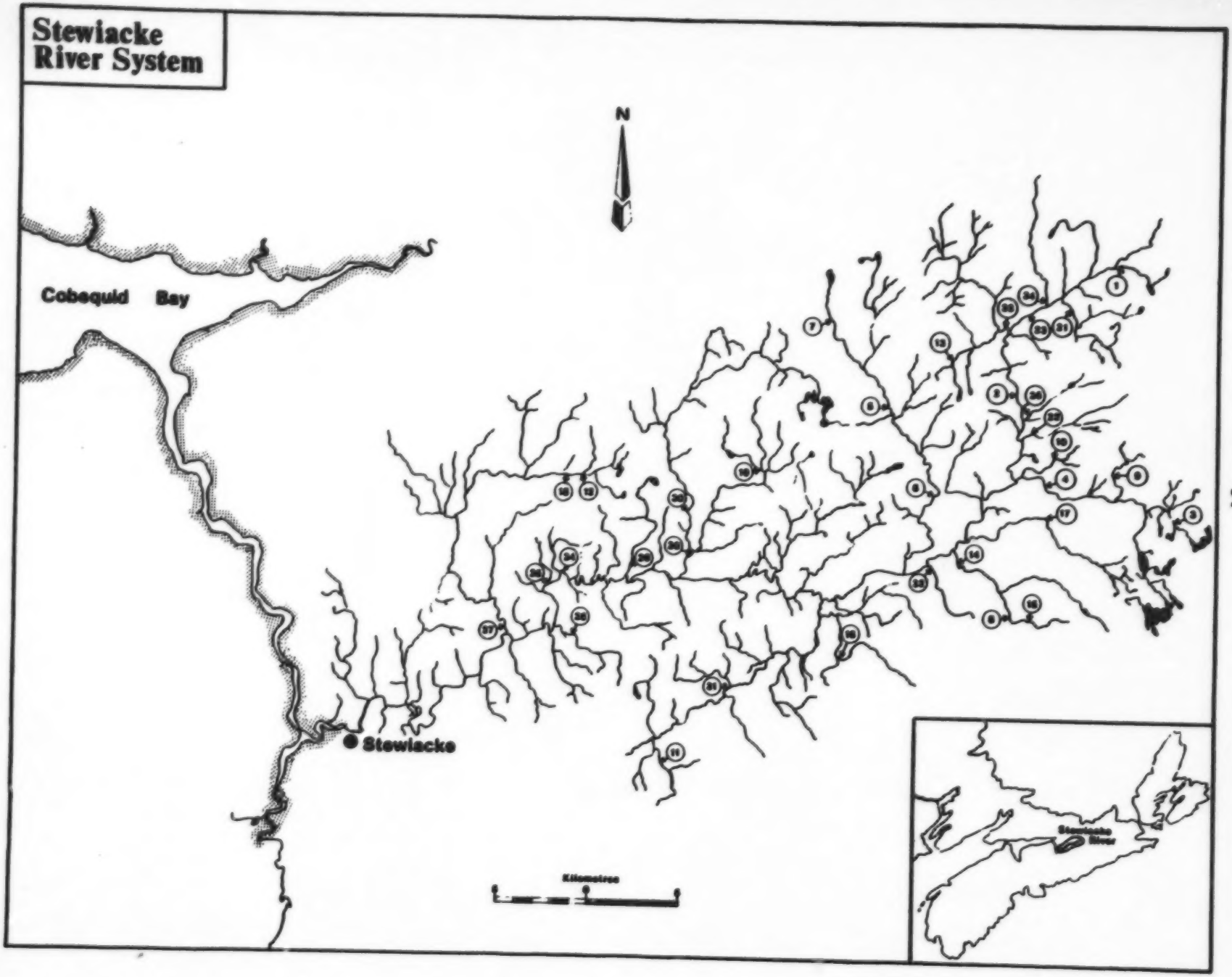

Fig. 1. Stewiacke River with electofishing site locations.

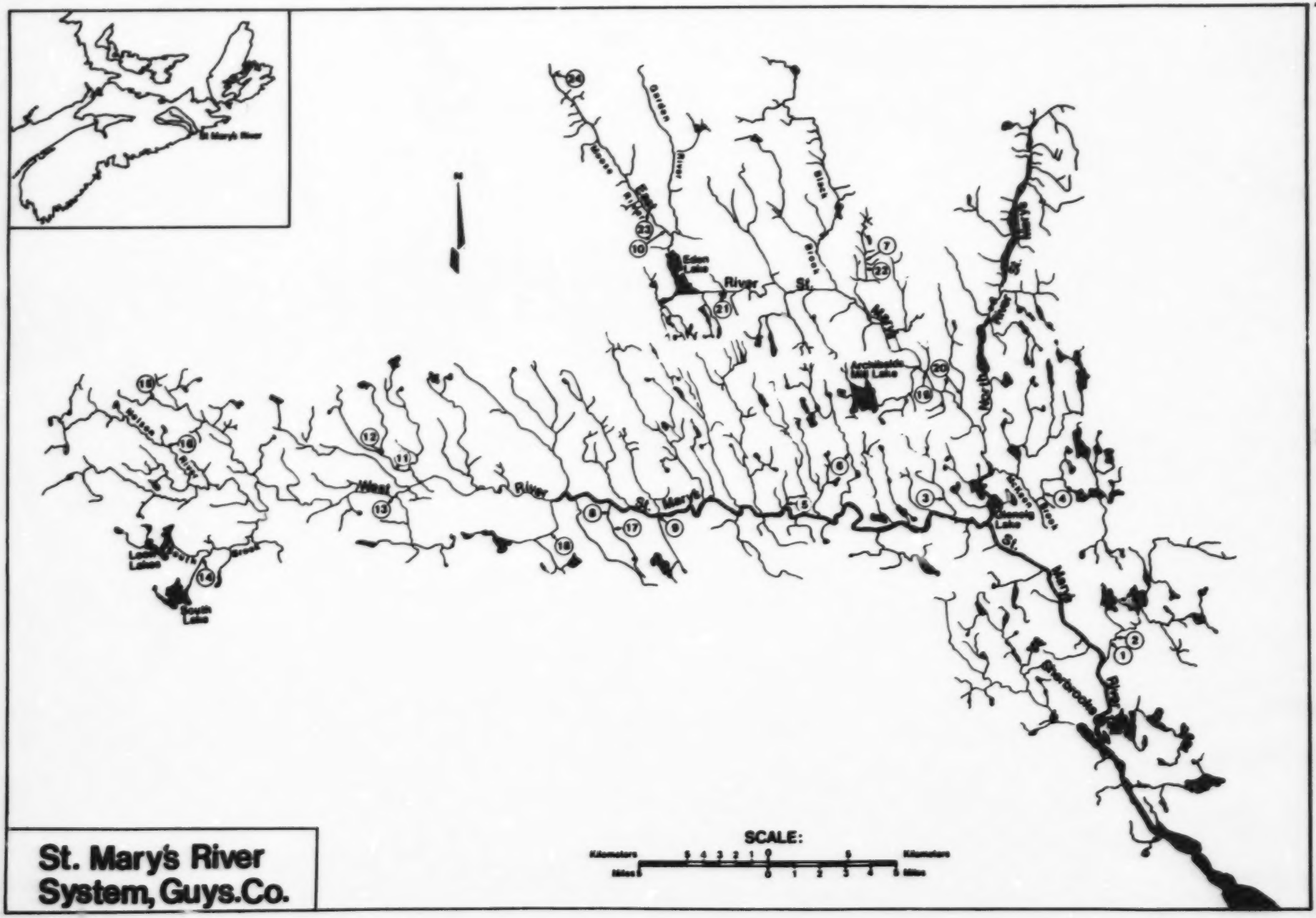

Fig. 2. St. Mary's River with electrofishing site locations.